

20000607.qrp v01\_n845.qrl.20000607

Date: Wed, 7 Jun 2000 19:03:07 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1845

QRP-L Digest 1845

Topics covered in this issue include:

- 1) [72078] Crystal set stuff & a queskin maybe . . .  
by nilsbull@juno.com
- 2) [72079] sweep stakes  
by "Walt Amos" <k8cv@worldspy.net>
- 3) [72080] Re: [TEST] Sprint  
by K2UD@aol.com
- 4) [72081] re: Speed of Light  
by "Dave Benham" <dodgeboy@mindspring.com>
- 5) [72082] Iowa QRP Forum Great!!  
by "James R. Duffey" <jamesd1@flash.net>
- 6) [72083] Re: [TEST] Sprint  
by Phil Wheeler <w7ox@earthlink.net>
- 7) [72084] Re: Speed of Light  
by "Mike Yetsko" <myetsko@insydesw.com>
- 8) [72085] Re: OT: DSL?  
by KD1YV <kd1yv@mindspring.com>
- 9) [72086] RE: Speed of Light  
by Lee Bahr <w5drc@earthlink.net>
- 10) [72087] CME... VHF CONTEST PROPAGATION  
by S LYON <sslyon@worldnet.att.net>
- 11) [72088] Re: OT: DSL?  
by david fouchey <dafouchey@home.com>
- 12) [72089] RE: Kit:NEW KIT FROM THE AZ ScQRPions  
by Bob Hightower <nk7m@extremezone.com>
- 13) [72090] Mixers other than the NE602  
by Stephen Trier <sct@po.cwru.edu>
- 14) [72091] Re: Speed of Light  
by Lee Bahr <w5drc@earthlink.net>
- 15) [72092] RE: DSL?  
by "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
- 16) [72093] Re: DSL?  
by "Ron Giuntini" <rong@slip.net>
- 17) [72094] Re: DSL?  
by "Jess Gypin" <jessqrp@uswest.net>
- 18) [72095] Re: Crystal set stuff & a queskin maybe . . .  
by Wb8siw@aol.com
- 19) [72096] comments on 706MkIIG?

by "Jeff Poulin" <jpoulin@erols.com>  
20) [72097] FS: 6M transverter/ Triton IV/ 2M mobile  
by "Jeff Poulin" <jpoulin@erols.com>  
21) [72098] Re: Speed of Light  
by Wb8siw@aol.com  
22) [72099] SMK-1  
by "Thaire Bryant" <tbry37@ici.net>  
23) [72100] Re: DSL?  
by "John J. McDonough" <wb8rcr@arrl.net>  
24) [72101] RE: DSL?  
by "Kevin Muenzler WB5RUE" <wb5rue@stic.net>  
25) [72102] RE: DSL?  
by "Kevin Muenzler WB5RUE" <wb5rue@stic.net>  
26) [72103] Re: DSL?  
by "Dan W. Dooley" <dandooley@pipeline.com>  
27) [72104] Hacker info. . .  
by REDSBOY@aol.com  
28) [72105] Re: DSL?  
by "Ron Smith" <resmith666@uswest.net>  
29) [72106] Re: OT: DSL?  
by KD1YV <kd1yv@mindspring.com>  
30) [72107] Re: OT: DSL?  
by "Dan W. Dooley" <dandooley@pipeline.com>  
31) [72108] Re: DSL?  
by "Dan W. Dooley" <dandooley@pipeline.com>  
32) [72109] Re: OT: DSL?  
by "Dan W. Dooley" <dandooley@pipeline.com>  
33) [72110] Help with DX Handy HF handheld?  
by Patrick Armstrong <aa7fg@gte.net>  
34) [72111] Re: DSL?  
by "Art Neilson, WH7N" <art@pilikia.hi.net>  
35) [72112] Re: Mixers other than the NE602  
by Chris Trask <ctrask@primenet.com>  
36) [72113] Re: CME... VHF CONTEST PROPAGATION  
by Dave Sjolín <sjolin@swbell.net>  
37) [72114] Re: [TEST] Sprint  
by Monte Stark <ku7y@dri.edu>  
38) [72115] Re: Speed of Light  
by "Carlos J. Caro" <cjcaro@nail.com>  
39) [72116] SMK-1 No smoke!  
by John Wagner <john@neknetwork.com>  
40) [72117] Kester solder for K2, Thanks  
by Randy D Jobe <n9yai@juno.com>  
41) [72118] Sprat 103  
by "Graham Firth" <graham.firth@btinternet.com>  
42) [72119] 6M opening...weird condx eh?  
by Mighty Mik <mitymik@wenet.net>  
43) [72120] FS: FT-990,FT-690R II,ARK-4,KAM+,TCV/7.0 Kit

by Andrew Comas <acomas@bellatlantic.net>  
44) [72121] Re: DSL?  
by "Faith III, Don C" <FaithD@mail01.dnr.state.wi.us>  
45) [72122] Great Telegraphy Site  
by "John P. Cummins, Sr." <jpcummins@worldnet.att.net>  
46) [72123] Re: [TEST] Sprint  
by Rick Sealey <rsealey@InfoAve.Net>  
47) [72124] Re: [TEST] Sprint  
by Bigbob97@aol.com  
48) [72125] Re: [TEST] Sprint  
by David Hinerman <dlh1009@ritvax.isc.rit.edu>  
49) [72126] WTB HW-8  
by Rick McKee <kc8aon@juno.com>  
50) [72127] FS: Bencher Paddle  
by "Steve/n0tu" <n0tu@webaccess.net>  
51) [72128] Re: [PROP] SEVERE storm likely  
by Rick Sealey <rsealey@InfoAve.Net>  
52) [72129] (no subject)  
by Jdd41@aol.com  
53) [72130] Re: PORTABLE ANTENNA-loop or inverted vee  
by "Everhart, Joseph @ CSE" <jeverhar@mail.cse.l-3com.com>  
54) [72131] RE: OT: DSL?  
by "Ron McConnell" <rcmcc@lucent.com>  
55) [72132] RE: DSL?  
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
56) [72133] RE: Hacker info. . .  
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
57) [72134] OT: Re: Hacker info. . .  
by Rick Sealey <rsealey@InfoAve.Net>  
58) [72135] Re: Hacker info. . .  
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
59) [72136] FDIM 2000 QRM Symposium Proceedings  
by "John P. Cummins, Sr." <jpcummins@worldnet.att.net>  
60) [72137] Re: PORTABLE ANTENNA-loop or inverted vee  
by "Cla KA0GKC" <ka0gkc@arrl.net>  
61) [72138] Re: Hacker info. . .  
by "Mike Yetsko" <myetsko@insydesw.com>  
62) [72139] Re: Speed of Light  
by Jake Brodsky <frussle@erols.com>  
63) [72140] Re: FDIM 2000 QRM Symposium Proceedings  
by Phil Wheeler <w7ox@earthlink.net>  
64) [72141] RE: Hacker info. . .  
by Monte Stark <ku7y@dri.edu>  
65) [72142] Re: Time for a QRP-L FAQ?  
by "Cla KA0GKC" <ka0gkc@arrl.net>  
66) [72143] Re: Hacker info. . .  
by "Richard E. Robinson" <rerobins@email.uncc.edu>  
67) [72144] current BALUN question

by "Paul Helbert, Wv3j" <phelbert@rica.net>  
68) [72145] Re: Speed of Light  
by Wb8siw@aol.com  
69) [72146] Re: OT: Hacker info. . .  
by "Dave Ek" <ekdave@earthlink.net>  
70) [72147] BLT Tuner matching range?  
by Arjen Raateland <Arjen.Raateland@vyh.fi>  
71) [72148] RE: Hacker info. . .  
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
72) [72149] FS: Transceivers  
by Ken Wezeman <n9qil@juno.com>  
73) [72150] Re: PORTABLE ANTENNA-loop or inverted vee  
by "n6wg:First n6wg:Last" <n6wg@earthlink.net>  
74) [72151] RE: Hacker info. . .  
by schoon@amgt.com  
75) [72152] BLT Tuner Tuning Range  
by "Doug Hendricks" <ki6ds@hotmail.com>  
76) [72153] Re: BLT Tuner matching range?  
by Steve Yates <aa5tb@yahoo.com>  
77) [72154] Re: Time for a QRP-L FAQ?  
by "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>  
78) [72155] Re: BLT Tuner Tuning Range  
by Phil Wheeler <w7ox@earthlink.net>  
79) [72156] FREE parts. Atlanta. Pick up only!!! Act quick or they go in the  
dumpster!  
by "Bob Duckworth" <wb4mnf@atl.org>  
80) [72157] Another X flare?  
by "Rod, N0RC" <n0rc@qsl.net>  
81) [72158] [PROP] Solar Storm Update  
by "Paul Harden, NA5N" <na5n@rt66.com>  
82) [72159] Solar Update: 7JUN 1800UTC  
by "Paul Harden, NA5N" <na5n@rt66.com>  
83) [72160] RE: Hacker info. . .  
by "J. W. (Dub) Thornton" <dub@oklahoma.net>  
84) [72161] RE: Hacker info. . .  
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
85) [72162] too many rigs, not enough time  
by "Mark Paley" <mpaley@wcnet.org>  
86) [72163] Re: BLT Tuner Tuning Range  
by Arjen Raateland <Arjen.Raateland@vyh.fi>  
87) [72164] RE: Hacker info. . .  
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
88) [72165] Re: Solar Update: 7JUN 1800UTC  
by Frank Alwine <n1gpy@together.net>  
89) [72166] Re: Solar Update: 7JUN 1800UTC  
by david fouchey <dafouchey@home.com>  
90) [72167] BLT tuning range  
by Charlie Lofgren <clofgren@benson.mckenna.edu>

- 91) [72168] RE: too many rigs, not enough time  
by "Mark Paley" <mpaley@wcnet.org>
- 92) [72169] Re: current BALUN question  
by Bob Kellogg <ae4ic@nr.infi.net>
- 93) [72170] Re: Solar Update: 7JUN 1800UTC  
by Wb8siw@aol.com
- 94) [72171] Re: Solar Update: 7JUN 1800UTC  
by K2UD@aol.com
- 95) [72172] Aurora  
by "Daniel" <hamop@pixi.com>
- 96) [72173] Poqet available for trade, no serial cable  
by Jeff <fantbb@yahoo.com>

-----  
Date: Tue, 6 Jun 2000 23:07:44 +0000  
From: nilsbull@juno.com  
To: QRP-L@lehigh.edu  
Subject: [72078] Crystal set stuff & a queskin maybe . . .  
Message-ID: <20000606.230802.-350841.0.nilsbull@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Gang,

I've been looking over the circuits for various Marconi registered trademark patented &c crystal sets in Bucher's book on "wireless telegraphy." Very interesting stuff. Those who have access to the book in question may well agree with me that, back then, the term "radio mechanic" was truer than you'd expect. Gears & sliding levers & coils riding on frames into and out of other coils. Piles of arcane switches & enough extra hoozits to hook up than any of us ever dreamed of in a SMD nightmare somewhere recent.

Like Steve Whitefield said at Drake once (him or Phil Metz, depends on memory): "Up here (2m & above) it's more plumbing than electronics."

What's also quite cool in the book is the sudden revelation that QSK weren't. As in: it didn't exist. At least not like you & I know it today. The "Marconi Type 1 Aerial Changeover Switch" follows the dictum on connections between antennas & receiving gear that "the receiving apparatus must be completely disconnected from the transmitting aerial by a switch with a break of at least 6 inches in length" And there's a diagram for non-believers. A couple places on the web show a huge slab of what I can only assume is marble, upon which is mounted an equally huge knife switch connected to the "aerial" wires going up & across the ceiling. Or overhead, if you wanna be nautically correct.

Now I'm tempted to build (or at least try to build) a reasonable repro of one of these receiver circuits. Only one problem: the information in the book is gives "fundamental circuit diagram of . . . " whatever "tuner" is under discussion. Receivers were tunes & some other stuff, I guess.

Looks like Lindsay books is gonna get some of my money for them crystal set books. That & scrounging up some knobs that look "close enough" to the stuff on the Marconi box in these pictures. Or maybe one of them guru dudes will turn me on to some web site . . .

And keys that were rated for 30 A. Can you imagine the RF burns? Ok, the shocks & terror?

Well, back to reality. Gotta listen on 17m for a while.

73

Nils

. . . and to the people in Bucher's book "shortwave" was 160 m!

-----

Nils R. Bull Young -- El Gringo Errante -- La Estancia de los Guajolotes Sonrientes

<http://www6.50megs.com/w8ijn> -- W8IJN -- <http://members.xoom.com/nilsbull>

"In MY day we had to FIGHT to have signatures! Every DAY was a STRUGGLE!"

-- Comrade Nikolai Sergeievich

McTovarishov, 19 Oct 1917

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!

Juno now offers FREE Internet Access!

Try it today - there's no risk! For your FREE software, visit:

<http://dl.www.juno.com/get/tagj>.

-----

Date: Tue, 6 Jun 2000 11:55:33 +0100

From: "Walt Amos" <k8cv@worldspy.net>

To: "Qrp-l Posts" <qrp-l@lehigh.edu>

Subject: [72079] sweep stakes

Message-ID: <000101bfd009\$1637c520\$342f1440@waltk8cv>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hasn't anyone heard of Sweep Stakes ??

Walt k8cv

-----  
Date: Tue, 6 Jun 2000 19:47:03 EDT  
From: K2UD@aol.com  
To: qrp-1@lehigh.edu  
Subject: [72080] Re: [TEST] Sprint  
Message-ID: <6a.384120d.266ee777@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

The Sprint must confound died-in-the wool testers. "Who are these guys that think Sweepstakes occurs every month?" But, nah. I don't think the kW mentality can even hear us!

72

Howard Kraus, K2UD

-----  
Date: Tue, 6 Jun 2000 19:49:53 -0400  
From: "Dave Benham" <dodgeboy@mindspring.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [72081] re: Speed of Light  
Message-ID: <00a601bfd011\$ea392be0\$49d479a5@hqa.chrysler.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Isn't the speed of light the inverse of the speed of darksuckers?

Dave K8TRF

-----  
Date: Tue, 06 Jun 2000 18:07:05 -0600  
From: "James R. Duffey" <jamesd1@flash.net>  
To: qrp-1 <qrp-1@lehigh.edu>  
Subject: [72082] Iowa QRP Forum Great!!  
Message-ID: <B562EE49.1049%jamesd1@flash.net>  
Mime-version: 1.0

Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

All - If you were within driving distance from Sioux City and missed the Iowa State QRP Forum you missed a great event. I just got back last night from an exciting trip.

The QRP forum was held in conjunction with the Dakota Division/Midwest Division Conventions, Hamboree 22.

I attended with my father in law, W0AEN. We arrived Friday afternoon about 1330 and jproceeded directly to the QRP table in the Hamfest area. John, NU0V and Jim AL7FS were manning the display and there was considerable interest in the rigs displayed and vendor/club information.

Since I knew Jim was going to be there, I dug through my old logs and found a contact with Jim from November 1966 when he was WA0LPK and I was WA0MWN. I xerographically reproduced the page for him and he was very happy. The contact was on 75 M AM, which in those days was a refuge for teenage Ham geeks who could not afford to upgrade to SSB :^). He leafed through my log and found many familar calls.

Midwest QRPers filtered in throughout the afternoon, including Ade, W0RSP. Ade gave a talk on working DX on QRP which had many good tips. I gave my antenna talk on Friday afternoon and it was well attended with about 40 or so seated and several more standing.

After the talks we adjourned to Valentino's for a pizza/Italian buffet. This was special to me as during my graduate school days I had many meals at the original Valentino's across from the University of Nebraska Ag Campus.

Following the Valentino's feast we went back to the hotel for an evening building fest. The project was the VE3DNL marker generator which Jay, W5JAY, from the Ft, Smith QRP Group was kind enough to provide to the Iowa group on consignment. 10 people built the kit, all successfully. I had a poor solder joint on the ground pin of the IC, but it worked fine after Jim pointed it out to me and I touched it up. Poor solder joints are the biggest cause of problems in kits. Paul, KB0JIT, and Mike, N0MF, helped with the building project. At \$10 plus \$2 for shipping this is an indispensable piece of test gear for the home builder just starting out. It can serve the function of a signal generator, frequency generator, and general "health and welfare" rig checker outer.

In the morning more QRPers showed up. I was glad to meet Mike, W0MF, who builds wonderful rigs Manahattan style. I had the opportunity to operate his 10 M SST when at Ft. Smith and it is a super rig. I worked a VK3 from Jay's home QTH and then Jay worked him on his K-2. The VK's signal was the same strength on both rigs. Mike gave a talk on building Manahattan style and



homebrewing in general that was quite good. I learned new things. During the building session the previous evening we had a brief discussion on audio filters (one of my passions) and Mike asked me what I thought of an Autek filter that used a 9 V battery. I had never heard of that filter, so Mike brought it to me the next day. It is an Autek QBox, and appears to predate the QF series. I was pleasantly surprised when Mike presented me the filter. I can't wait to try it out.

Larry, WB0RMT, had a simple superhet receiver that fit into an Altoids tin. Larry's son, Alex, whose call I missed, was also there. Alex operates a lot of 6 M and we all tried to get him interested in CW so we can work him on the HF bands.

I gave a talk on Baluns for QRP operation which was also well attended. This is a new talk for me which included some demonstrations which went over pretty well. I may give it again if somebody asks.

We ate lunch at Hungry's. Ade and I started sketching some antenna ideas on napkins which John promptly confiscated for the Iowa QRP Napkin Archives. So send those ideas you scratch out on napkins to John.

Ade gave his DX talk again in the afternoon, and the afternoon ended with a QRP Q&A session which was well attended by people who asked good questions.

My Father-in-law and I stayed overnight and went back to Hastings, NE on Sunday. We went to breakfast at McDonalds. I was pleasantly surprised when Warren, W0WL, who had attended my talk came over to chat. We talked about conjugate matches and he told me about his 18 years at Collins. Warren designed the PA section of the KWM-2.

I want to thank the Iowa QRP group for making my stay very enjoyable. Jerry, WB0T, made lots of arrangements on my behalf and did a good job of coordinating things in general.

The Iowa QRP forum is a class event. If you cannot get to Pacificon, Ft. Tuthill, Arkiecon, or Atlanticon, then this is a good substitute. See you next year!- Dr. Megacycle KK6MC/5

--

James R. Duffey KK6MC/5  
30 Casa Loma Road  
Cedar Crest, NM 87008

-----  
Date: Tue, 06 Jun 2000 17:27:51 -0700  
From: Phil Wheeler <w7ox@earthlink.net>  
To: K2UD@aol.com

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [72083] Re: [TEST] Sprint  
Message-ID: <393D9707.C9D900E8@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

K2UD@aol.com wrote:

>  
> The Sprint must confound died-in-the wool testers. "Who are these guys  
> that think Sweepstakes occurs every month?" But, nah. I don't think the kW  
> mentality can even hear us!  
>

Hopefully, they don't hang out around the qrp freqs (at least when  
running power)!

Phil

-----  
Date: Tue, 6 Jun 2000 20:55:47 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <dodgeboy@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [72084] Re: Speed of Light  
Message-ID: <003001bfd01b\$6b1fbe00\$2c4dfea9@dadshp>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

No, the polarity is inverted...

Mike

> Isn't the speed of light the inverse of the speed of darksuckers?  
>  
> Dave K8TRF  
>  
>  
>

-----

Date: Tue, 06 Jun 2000 21:27:46 -0400  
From: KD1YV <kd1yv@mindspring.com>  
To: jskalski@localnet.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [72085] Re: OT: DSL?  
Message-ID: <393DA512.8955C0B8@mindspring.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Here's what the CT telco is offering. It's a pretty good deal, but you have to be within 17,000 feet (cable distance) of the central office. I'm 21,000 (by my map figuring), so they won't even attempt it. However, they are in the process of installing some sort of remote concentrators or such, so that folks like me will be able to get it in the future.

A colleague at work has this, and is thrilled with the speed. It's like "click" and the page is displayed. Click and the next page is displayed. No waiting!

--

72/73 de Jim, KD1YV

Would cars be less expensive if it weren't for all of those annoying TV ads?

=====

Take advantage of our DSL Internet Access for just \$39.95 per month (requires a one-year term agreement) and includes free DSL equipment and installation. The promotion is available to new and existing Residential or Business SBC Internet Services\* customers.

Our DSL Internet Access includes:

Free DSL equipment - Modem, Network Interface Card (NIC), and Splitter (if required).

Free installation with customer self-install; \$99 installation charge for technician install

Unlimited "always on" Internet access 24 hours a day, 7 days a week

Tech support 24 hours a day, 7 days a week

Free dial-up with SNET Internet Services.

One Dynamic IP address

5 email boxes

A free personal home page up to 5MB

News group access

Browser software

How fast is it?

Connection speeds for DSL typically range from 384Kbps to 1.544Mbps downstream and

128Kbps upstream. In addition, a DSL line allows for one line to carry both

voice and data signals, and for the data part of the line to be continuously connected, so you can talk on your phone line at the same time you're surfing the Internet.

Note: Service and speed options not available in some areas. Minimum connection speed or "sync-rate" (384Kbps or 1.5Mbps) is guaranteed between customer location and serving central office. Connection speeds may be higher under optimal conditions. Actual data transfer or throughput may be lower than sync-rate due to Internet congestion, server or router speeds, protocol overheads, and other factors that cannot be controlled by SBC Companies.  
Order it now!

\* SBC Internet Services (SBCIS) includes: Southwestern Bell Internet Services, Pacific Bell Internet Services, Nevada Bell Internet Services, SNET Internet, and Ameritech.net.

James Skalski wrote:

> I am thinking of dumping my ISP and going to DSL. This would allow me to  
> drop the dedicated phone line and the ISP charge.  
>  
> Does anyone have an opinion about whether I should get a splitter or  
> microfilters for my phones? I am close enough to the Phoneco at 4900feet  
> for any type of DSL. I would probably opt for the cheapest version which  
> would be about \$49. That would bring it close to the cost of a separate  
> phone and ISP. It would a performance increase of about 11X.  
>  
> What kinds of rates are you guys getting? Direct response might be  
> best. Although this list is internet based and might be useful info.  
>  
> 73,  
>  
> Jim n2go

-----  
Date: Tue, 06 Jun 2000 20:44:27 -0500  
From: Lee Bahr <w5drc@earthlink.net>

To: qrp-1@Lehigh.EDU  
Subject: [72086] RE: Speed of Light  
Message-ID: <393DA8FB.8D424D92@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Personally I think the guys finding light going faster 186,000 miles per hour need to put new batteries in their calculator.

I would also be very interested in hearing from any Flat Earth Society members on here with their views on the recent findings. Let's get some real expert opinion on all this!

Lee Bahr w0vt

-----  
Date: Tue, 06 Jun 2000 21:39:04 -0400  
From: S LYON <sslyon@worldnet.att.net>  
To: "chat, cara" <discussion@mx.twc-inc.com>, chat qrp <qrp-1@Lehigh.EDU>  
Subject: [72087] CME... VHF CONTEST PROPAGATION  
Message-ID: <393DA7B8.9DA63AD2@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

-at least aurora prop should be spec tac u lar, correcto? What say you, prognosticators?

--

'Seab' Lyon - AA1MY  
Beacon NY USA FN-31  
QRP-L 574 ARCI 9253

-----  
Date: Tue, 06 Jun 2000 21:47:53 -0400  
From: david fouchey <dafouchey@home.com>  
To: kd1yv@mindspring.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [72088] Re: OT: DSL?  
Message-ID: <393DA9C9.ECFA3C42@home.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

How does the speed of DSL compare to a Cable Modem? (What's the maximum

transfer rate for both on average?)

Dave WA4EMR/8

KD1YV wrote:

>  
> Here's what the CT telco is offering. It's a pretty good deal, but you have  
> to be within 17,000 feet (cable distance) of the central office. I'm 21,000  
> (by my map figuring), so they won't even attempt it. However, they are in  
> the process of installing some sort of remote concentrators or such, so that  
> folks like me will be able to get it in the future.  
>  
> A colleague at work has this, and is thrilled with the speed. It's like  
> "click" and the page is displayed. Click and the next page is displayed.  
> No waiting!  
> --  
> 72/73 de Jim, KD1YV  
> Would cars be less expensive if it weren't for all of those annoying TV ads?  
>  
> =====  
> Take advantage of our DSL Internet Access for just \$39.95 per month  
> (requires a one-year term  
> agreement) and includes free DSL equipment and installation. The promotion  
> is available to new  
> and existing Residential or Business SBC Internet Services\* customers.  
>  
> Our DSL Internet Access includes:  
>  
> Free DSL equipment - Modem, Network Interface Card (NIC), and Splitter (if  
> required).  
> Free installation with customer self-install; \$99 installation charge for  
> technician install  
> Unlimited "always on" Internet access 24 hours a day, 7 days a week  
> Tech support 24 hours a day, 7 days a week  
> Free dial-up with SNET Internet Services.  
> One Dynamic IP address  
> 5 email boxes  
> A free personal home page up to 5MB  
> News group access  
> Browser software  
> How fast is it?  
> Connection speeds for DSL typically range from 384Kbps to 1.544Mbps  
> downstream and  
> 128Kbps upstream. In addition, a DSL line allows for one line to carry both  
> voice and data  
> signals, and for the data part of the line to be continuously connected, so  
> you can talk on your  
> phone line at the same time you're surfing the Internet.

>  
> Note: Service and speed options not available in some areas. Minimum  
> connection speed or  
> "sync-rate" (384Kbps or 1.5Mbps) is guaranteed between customer location and  
> serving central  
> office. Connection speeds may be higher under optimal conditions. Actual  
> data transfer or  
> throughput may be lower than sync-rate due to Internet congestion, server or  
> router speeds,  
> protocol overheads, and other factors that cannot be controlled by SBC  
> Companies.  
> Order it now!  
>  
> \* SBC Internet Services (SBCIS) includes: Southwestern Bell Internet  
> Services, Pacific Bell  
> Internet Services, Nevada Bell Internet Services, SNET Internet, and  
> Ameritech.net.  
>  
> James Skalski wrote:  
>  
> > I am thinking of dumping my ISP and going to DSL. This would allow me to  
> > drop the dedicated phone line and the ISP charge.  
> >  
> > Does anyone have an opinion about whether I should get a splitter or  
> > microfilters for my phones? I am close enough to the Phoneco at 4900feet  
> > for any type of DSL. I would probably opt for the cheapest version which  
> > would be about \$49. That would bring it close to the cost of a separate  
> > phone and ISP. It would a performance increase of about 11X.  
> >  
> > What kinds of rates are you guys getting? Direct response might be  
> > best. Although this list is internet based and might be useful info.  
> >  
> >  
> > 73,  
> >  
> > Jim n2go

-----  
Date: Tue, 06 Jun 2000 18:50:07 -0700  
From: Bob Hightower <nk7m@extremezone.com>  
To: qrp-l@lehigh.edu, azqrp@extremezone.com  
Subject: [72089] RE: Kit:NEW KIT FROM THE AZ ScQRPions  
Message-ID: <200006070146.SAA07893@enterprise.extremezone.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I'm re-sending this note, for those who may not have seen it. One small  
change:

due to a small glitch with the club account, please make checks out to me, Bob Hightower, rather than to the ScQRPions. If you have already sent your check, I'll work it out with the bank.

The AZ ScQRPions are introducing a new Microphone Preamp Kit specifically designed to fit the Elecraft K2. This kit is small - only 0.9 inch by 1.1 inch. and is designed to fit inside of the K2 without any permanent modification of the K2. The kit consists of 10 resistors, 2 capacitors, 1 transistor, a PCB, and instructions. The gain of the preamp is resistor programmable and can be set to 3, 4.5, 6.6, 8.3, or 10. Instructions are included on how to set the gain.

Even though this mic preamp is designed for the K2, it is small enough to fit into many microphones. The input impedance matches most low impedance microphones and the output impedance is approximately 1K Ohm.

Orders for the preamp are being taken by Bob Hightower. If you want one of these preamps, email Bob at: nk7m@extremezone.com.

Request the number of kits you want. Bob will return your email with an order confirmation number. Then you can send your check made out to Bob Hightower and include your confirmation number. Mail your check to:

Bob Hightower  
1905 N Pennington Drive  
Chandler, AZ 85224-2632  
USA

Also, be sure to include a mailing label with your address clearly printed on it.

The kits will be mailed out on approximately June 15. The price for each kit is \$10 including 1st class mail to USA and Canada. Check with Bob Hightower for shipping to other countries.

--

73, Jerry Haigwood, W5JH, Peoria, AZ USA  
web page <http://www.swlink.net/~w5jh/>

Bob Hightower NK7M  
Chandler, AZ  
SOC #20  
K2 #157/255



<http://www.extremezone.com/~nk7m>

-----  
Date: Tue, 06 Jun 2000 22:00:20 -0400  
From: Stephen Trier <sct@po.cwru.edu>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [72090] Mixers other than the NE602  
Message-ID: <3.0.6.32.20000606220020.0097b5a0@pop.cwru.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I found the SD8901 in a Calogic databook about a year ago, but I remember Gary Breed mentioning it in a talk he gave at FDIIM ~4 years ago. It's a MOSFET ring mixer with a fairly high third-order intercept. With 7 dBm drive, its IP3 is +25 dBm, and with 17 dBm drive, its IP3 is +38 dBm. That's 8-10 dB above the anonymous diode ring mixer the datasheet uses for comparison. The mixers have a conversion loss of 8 dB.

I haven't tried to get my hands on any of these yet, but they look promising. There are two drawbacks to them. First, to get really good IP3, they need 10-15 dBm of drive. Second, they require external components that are pre-integrated in the NE602 and Minicircuits mixers.

Calogic also makes the SD5400 and SD5501, similar quad MOSFET ICs that are specified as analog switches. They would probably serve well as mixers, too.

Was anyone else inspired to try these in a rig after Gary's talk? How well did they work out?

Stephen

--  
Stephen Trier KG8IH  
sct@po.cwru.edu

-----  
Date: Tue, 06 Jun 2000 21:15:08 -0500  
From: Lee Bahr <w5drc@earthlink.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [72091] Re: Speed of Light

Message-ID: <393DB02C.2EA043A2@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I mean per second!!!  
Lee w0vt

Lee Bahr wrote:

> Personally I think the guys finding light going faster 186,000 miles per  
> hour need to put new batteries in their calculator.  
> I would also be very interested in hearing from any Flat Earth Society  
> members on here with their views on the recent findings. Let's get some  
> real expert opinion on all this!  
> Lee Bahr w0vt

-----  
Date: Tue, 6 Jun 2000 21:06:46 -0500  
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>  
To: <w1rfi@arrl.org>, "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>  
Subject: [72092] RE: DSL?  
Message-ID: <000001bfd025\$094ecdb0\$c43dc6d8@wb5rue>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I had a "neighbor" some quarter of a mile away install DSL and a small in-home network in his house. He was only in this house for a period of six months while he did some work for the county. During this time I was "blessed" with S5 to S9 noise levels from 160-2 meters. It was severe enough on 2 meters to prevent me from doing any real DX SSB. I helped him shield his network cables by using some shielded twisted pair lines but the DSL still gave me severe noise all across HF. SO, if you want to "abandon" HF or at least weak signal HF DSL will be fine. (sarcasm)

72/73  
Kevin, WB5RUE

> -----Original Message-----  
> From: owner-qrp-l@Lehigh.EDU  
> [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of  
> Hare, Ed, W1RFI  
> Sent: Tuesday, June 06, 2000 5:56 PM  
> To: Low Power Amateur Radio Discussion

> Subject: RE: DSL?  
>  
>  
> While we are on the subject of DSL, can anyone share with me  
> any reports of  
> AM BC and HF noise levels before and after a DSL installation?  
>  
> I would be especially interested in any VDSL reports.  
>  
> 73,  
> Ed Hare, W1RFI  
> ARRL Laboratory Supervisor  
> 225 Main St  
> Newington, CT 06111  
> Tel: 860-594-0318  
> FAX: 860-594-0259  
> Internet: w1rfi@arrl.org  
> ARRL Web: <http://www.arrl.org>  
> ARRL Technical Information Service: <http://www.arrl.org/tis/>  
>  
>  
>  
> -----Original Message-----  
> From: James Skalski [mailto:jskalski@localnet.com]  
> Sent: Tuesday, June 06, 2000 6:44 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: OT: DSL?  
>  
>  
> I am thinking of dumping my ISP and going to DSL. This would  
> allow me to  
> drop the dedicated phone line and the ISP charge.  
>  
> Does anyone have an opinion about whether I should get a splitter or  
> microfilters for my phones? I am close enough to the Phoneco  
> at 4900feet  
> for any type of DSL. I would probably opt for the cheapest  
> version which  
> would be about \$49. That would bring it close to the cost of  
> a separate  
> phone and ISP. It would a performance increase of about 11X.  
>  
> What kinds of rates are you guys getting? Direct response might be  
> best. Although this list is internet based and might be useful info.  
>  
> 73,  
>  
> Jim n2go

>

-----  
Date: Tue, 6 Jun 2000 19:20:39 -0700  
From: "Ron Giuntini" <rong@slip.net>  
To: <wb5rue@stic.net>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [72093] Re: DSL?  
Message-ID: <000501bfd026\$f9e60800\$3110b9d8@rongiuntini>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Now this is very interesting...Would not the DSL provider be responsible for eliminating the RF noise? Does not the FCC regulate such problems and place the responsibility on the provider? As in noise coming from a power line transformer?

| I had a "neighbor" some quarter of a mile away install DSL and a small  
| in-home network in his house. He was only in this house for a period of  
six  
| months while he did some work for the county. During this time I was  
| "blessed" with S5 to S9 noise levels from 160-2 meters. It was severe  
| enough on 2 meters to prevent me from doing any real DX SSB. I helped him  
| shield his network cables by using some shielded twisted pair lines but  
the  
| DSL still gave me severe noise all across HF. SO, if you want to  
"abandon"  
| HF or at least weak signal HF DSL will be fine. (sarcasm)  
|  
| 72/73  
| Kevin, WB5RUE  
|

-----  
Date: Tue, 6 Jun 2000 20:21:37 -0600  
From: "Jess Gypin" <jessqrp@uswest.net>  
To: <wb5rue@stic.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [72094] Re: DSL?  
Message-ID: <01f601bfd027\$1c011c40\$0100a8c0@jess>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I have DSL and an internal network in the house that runs over the phone wiring. No problems whatsoever with anyh radio interference.

Jess

----- Original Message -----

From: Kevin Muenzler WB5RUE <wb5rue@stic.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Tuesday, June 06, 2000 8:06 PM

Subject: RE: DSL?

> I had a "neighbor" some quarter of a mile away install DSL and a small  
> in-home network in his house. He was only in this house for a period of  
six  
> months while he did some work for the county. During this time I was  
> "blessed" with S5 to S9 noise levels from 160-2 meters. It was severe  
> enough on 2 meters to prevent me from doing any real DX SSB. I helped him  
> shield his network cables by using some shielded twisted pair lines but  
the

> DSL still gave me severe noise all across HF. SO, if you want to  
"abandon"

> HF or at least weak signal HF DSL will be fine. (sarcasm)

>

> 72/73

> Kevin, WB5RUE

>

> > -----Original Message-----

> > From: owner-qrp-1@Lehigh.EDU

> > [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of

> > Hare, Ed, W1RFI

> > Sent: Tuesday, June 06, 2000 5:56 PM

> > To: Low Power Amateur Radio Discussion

> > Subject: RE: DSL?

> >

> >

> > While we are on the subject of DSL, can anyone share with me

> > any reports of

> > AM BC and HF noise levels before and after a DSL installation?

> >

> > I would be especially interested in any VDSL reports.

> >

> > 73,

> > Ed Hare, W1RFI

> > ARRL Laboratory Supervisor

> > 225 Main St

> > Newington, CT 06111

> > Tel: 860-594-0318  
> > FAX: 860-594-0259  
> > Internet: w1rfi@arrl.org  
> > ARRL Web: <http://www.arrl.org>  
> > ARRL Technical Information Service: <http://www.arrl.org/tis/>  
> >  
> >  
> >  
> > -----Original Message-----  
> > From: James Skalski [mailto:jskalski@localnet.com]  
> > Sent: Tuesday, June 06, 2000 6:44 PM  
> > To: Low Power Amateur Radio Discussion  
> > Subject: OT: DSL?  
> >  
> >  
> > I am thinking of dumping my ISP and going to DSL. This would  
> > allow me to  
> > drop the dedicated phone line and the ISP charge.  
> >  
> > Does anyone have an opinion about whether I should get a splitter or  
> > microfilters for my phones? I am close enough to the Phoneco  
> > at 4900feet  
> > for any type of DSL. I would probably opt for the cheapest  
> > version which  
> > would be about \$49. That would bring it close to the cost of  
> > a separate  
> > phone and ISP. It would a performance increase of about 11X.  
> >  
> > What kinds of rates are you guys getting? Direct response might be  
> > best. Although this list is internet based and might be useful info.  
> >  
> > 73,  
> >  
> > Jim n2go  
> >  
>  
>

-----  
Date: Tue, 6 Jun 2000 22:21:05 EDT  
From: Wb8siw@aol.com  
To: nilsbull@juno.com, qrp-1@lehigh.edu  
Subject: [72095] Re: Crystal set stuff & a queskin maybe . . .  
Message-ID: <71.3c833c4.266f0b91@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

In a message dated 06/06/2000 7:16:22 PM Eastern Daylight Time,  
nilsbull@juno.com writes:

<< And keys that were rated for 30 A. Can you imagine the RF burns? Ok, the  
shocks & terror? >>

Hi Nils:

Well, maybe not RF burns, but certainly the danger of shock! Those large  
spark keys were typically placed in the primary of a spark transformer, as  
opposed to the secondary and related RF circuit.

I have a copy of that book, as well as a couple of the items pictured in  
it....definitely interesting stuff.

>. . . and to the people in Bucher's book "shortwave" was 160 m<

Yes, any wavelength shorter than 200 meters (gt 1500 kc) was considered  
useless at the time. As a matter of fact, the first piece of radio  
legislation, the Radio Act of 1912, limited the radio amateur to 200 Meters.  
This was done with the hope that amateur radio would simply "die out" when  
the hams couldn't communicate over any reasonable distance.

Of course, our legislators, in their infinite wisdom, didn't anticipate the  
invention of the Regenerative Circuit by Armstrong nor the unique propagation  
characteristics of the shortwaves. LOL.

73, Jim WB8SIW

-----  
Date: Tue, 6 Jun 2000 22:20:53 -0400  
From: "Jeff Poulin" <jpoulin@erols.com>  
To: <qrp-l@lehigh.edu>  
Subject: [72096] comments on 706MkIIG?  
Message-ID: <06bf01bfd027\$02476ac0\$0101a8c0@jpoulin>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello Folks: I am seriously considering an Icom 706MkIIG as a backup  
rig and to get 6,2, and 440 all mode capability. (My Corsair II and  
OHR 400 remain my primary rigs for qrp work.) It would also provide a  
small radio that could handle all my ARES/RACES needs, which can go

from 80 meter SSB to 440 FM. I am not looking for a serious DX or contest machine, just a reliable and versatile rig. I would appreciate any thoughts on the rig, good or bad. Please respond to me personally so we don't jam up the list. Thanks in advance.

72, Jeff KV4AP QRP-L # 743  
Manassas, VA

-----  
Date: Tue, 6 Jun 2000 22:23:06 -0400  
From: "Jeff Poulin" <jpoulin@erols.com>  
To: <qrp-l@lehigh.edu>  
Subject: [72097] FS: 6M transverter/ Triton IV/ 2M mobile  
Message-ID: <06c901bfd027\$514f0ba0\$0101a8c0@jpoulin>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hey People: I need to save for a new rig and to make some room in the shack. Also, I have been bitten by the kit building bug (God help the airways) and that takes some space. So here goes:

1. Ten-Tec model 1208A 20 to 6 meter transverter, factory assembled, with instructions. Looks good and works perfectly. \$130.00 includes shipping
2. Ten-Tec Triton IV, model 540 (analog). Cosmetically a 7, electronically a 10. Completely aligned and checked over and dial restrung by Ten-Tec late last year. With instruction book and model 215PC mic with desk stand. Front panel knob takes it from zip to 100 watts. \$375.00 includes shipping. (I'll regret this one eventually, but what the heck!)
3. HTX-212 2 meter mobile rig with hand mic and instructions. Works perfectly. \$125.00 includes shipping.

Please respond to me personally. Thanks!!

72,  
Jeff KV4AP QRP-L # 743  
Manassas, VA



-----  
Date: Tue, 6 Jun 2000 22:25:03 EDT  
From: Wb8siw@aol.com  
To: dodgeboy@mindspring.com, qrp-l@lehigh.edu  
Subject: [72098] Re: Speed of Light  
Message-ID: <a0.572780b.266f0c7f@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 06/06/2000 7:50:09 PM Eastern Daylight Time,  
dodgeboy@mindspring.com writes:

<< Isn't the speed of light the inverse of the speed of darksuckers?

Dave K8TRF >>

Gertrude Tyne, a vacuum tube engineer at RCA, once had dinner with Lee DeForest, the inventor of the original vacuum tube ("audion"). DeForest wasn't much of an engineer, and in his latter years, was way behind the curve. Mrs. Tyne convinced DeForest that she was developing a "flashdark" to "illumine with darkness." DeForest proceeded to offer advice on patents, applications, etc.....

....and think of this: The supreme court actually ruled in favour of DeForest during his battles with Armstrong. Goes to show how smart the courts are!  
hi.

73, Jim

-----  
Date: Tue, 6 Jun 2000 22:27:40 -0400  
From: "Thaire Bryant" <tbry37@ici.net>  
To: "QRP-L" <QRP-L@lehigh.edu>  
Subject: [72099] SMK-1  
Message-ID: <200006070229.WAA13931@bajor.ici.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

I finished my SMK tonight...had to wait for Doug to replace one missing part (many thanks!!). I find that the receiver is a little deaf(granted that the bands

are dead!), and that the side tone is a little too loud.

I must say though, it's the first kit I've worked on that's worked from "power on". I think that SM, at least this size, is easier than through-the-hole parts.

Any suggestions on how to further peak the receive, and to calm down the sidetone? Also, what is the correct procedure for aligning the receiver and transmitter?

Thanks in advance...

Thaire W2APF

-----

Date: Tue, 6 Jun 2000 22:27:47 -0400  
From: "John J. McDonough" <wb8rcr@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [72100] Re: DSL?  
Message-ID: <058601bfd027\$f9c80340\$010044c0@Conor.baycty1.mi.home.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Jess Gypin <jessqrp@uswest.net>  
Subject: Re: DSL?

>I have DSL and an internal network in the house that runs over the phone  
>wiring. No problems whatsoever with anyh radio interference.

I hear my house network on practically every band. Most times it's not too bad, tho.

72/73 de WB8RCR      <http://members.home.com/wb8rcr/index.htm>  
didileydadidah      QRP-L #1446 Code Warriors #35

-----

Date: Tue, 6 Jun 2000 21:31:08 -0500  
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>  
To: "'Jess Gypin'" <jessqrp@uswest.net>, "'Low Power Amateur Radio Discussion'"

<qrp-1@Lehigh.EDU>  
Subject: [72101] RE: DSL?  
Message-ID: <000201bfd028\$70d798b0\$c43dc6d8@wb5rue>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

"I knows what I knows," when he left the noise went away. I have ISDN now and have no problems at all. Perhaps it was very poorly shielded equipment but like I said when he left so did the noise.

72/73

Kevin, WB5RUE

> -----Original Message-----  
> From: Jess Gypin [mailto:jessqrp@uswest.net]  
> Sent: Tuesday, June 06, 2000 9:22 PM  
> To: wb5rue@stic.net; Low Power Amateur Radio Discussion  
> Subject: Re: DSL?  
>  
>  
> I have DSL and an internal network in the house that runs  
> over the phone  
> wiring. No problems whatsoever with anyh radio interference.  
>  
> Jess  
> ----- Original Message -----  
> From: Kevin Muenzler WB5RUE <wb5rue@stic.net>  
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
> Sent: Tuesday, June 06, 2000 8:06 PM  
> Subject: RE: DSL?  
>  
>  
> > I had a "neighbor" some quarter of a mile away install DSL  
> and a small  
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> for a period of  
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> > enough on 2 meters to prevent me from doing any real DX  
> SSB. I helped him  
> > shield his network cables by using some shielded twisted  
> pair lines but

> the  
> > DSL still gave me severe noise all across HF. SO, if you want to  
> "abandon"  
> > HF or at least weak signal HF DSL will be fine. (sarcasm)  
> >  
> > 72/73  
> > Kevin, WB5RUE  
> >  
> > > -----Original Message-----  
> > > From: owner-qrp-l@Lehigh.EDU  
> > > [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of  
> > > Hare, Ed, W1RFI  
> > > Sent: Tuesday, June 06, 2000 5:56 PM  
> > > To: Low Power Amateur Radio Discussion  
> > > Subject: RE: DSL?  
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> > > any reports of  
> > > AM BC and HF noise levels before and after a DSL installation?  
> > >  
> > > I would be especially interested in any VDSL reports.  
> > >  
> > > 73,  
> > > Ed Hare, W1RFI  
> > > ARRL Laboratory Supervisor  
> > > 225 Main St  
> > > Newington, CT 06111  
> > > Tel: 860-594-0318  
> > > FAX: 860-594-0259  
> > > Internet: w1rfi@arrl.org  
> > > ARRL Web: <http://www.arrl.org>  
> > > ARRL Technical Information Service: <http://www.arrl.org/tis/>  
> > >  
> > >  
> > >  
> > > -----Original Message-----  
> > > From: James Skalski [mailto:jskalski@localnet.com]  
> > > Sent: Tuesday, June 06, 2000 6:44 PM  
> > > To: Low Power Amateur Radio Discussion  
> > > Subject: OT: DSL?  
> > >  
> > >  
> > > I am thinking of dumping my ISP and going to DSL. This would  
> > > allow me to  
> > > drop the dedicated phone line and the ISP charge.  
> > >  
> > > Does anyone have an opinion about whether I should get a

> splitter or  
> > > microfilters for my phones? I am close enough to the Phoneco  
> > > at 4900feet  
> > > for any type of DSL. I would probably opt for the cheapest  
> > > version which  
> > > would be about \$49. That would bring it close to the cost of  
> > > a separate  
> > > phone and ISP. It would a performance increase of about 11X.  
> > >  
> > > What kinds of rates are you guys getting? Direct response might be  
> > > best. Although this list is internet based and might be  
> useful info.  
> > >  
> > > 73,  
> > >  
> > > Jim n2go  
> > >  
> >  
> >  
>

-----  
Date: Tue, 6 Jun 2000 21:33:02 -0500  
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>  
To: "'Ron Giuntini'" <rong@slip.net>, "'Low Power Amateur Radio Discussion'" <qrp-  
l@Lehigh.EDU>  
Subject: [72102] RE: DSL?  
Message-ID: <000301bfd028\$b43d2ac0\$c43dc6d8@wb5rue>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Yes it is but I would bet, if I were a betting sort of guy, that the standards for noise level are geared towards television and radio where the signal levels are thousands of times stronger than what we need. If the signal produced an "S5" noise level and the radio/television station was thousands of times stronger what would it matter?

Kevin, WB5RUE

> -----Original Message-----  
> From: Ron Giuntini [mailto:rong@slip.net]  
> Sent: Tuesday, June 06, 2000 9:21 PM  
> To: wb5rue@stic.net; Low Power Amateur Radio Discussion  
> Subject: Re: DSL?

>  
>  
> Now this is very interesting...Would not the DSL provider be  
> responsible for  
> eliminating the RF noise? Does not the FCC regulate such  
> problems and place  
> the responsibility on the provider? As in noise coming from a  
> power line  
> transformer?  
>  
> | I had a "neighbor" some quarter of a mile away install DSL  
> and a small  
> | in-home network in his house. He was only in this house  
> for a period of  
> six  
> | months while he did some work for the county. During this  
> time I was  
> | "blessed" with S5 to S9 noise levels from 160-2 meters. It  
> was severe  
> | enough on 2 meters to prevent me from doing any real DX  
> SSB. I helped him  
> | shield his network cables by using some shielded twisted  
> pair lines but  
> the  
> | DSL still gave me severe noise all across HF. SO, if you want to  
> "abandon"  
> | HF or at least weak signal HF DSL will be fine. (sarcasm)  
> |  
> | 72/73  
> | Kevin, WB5RUE  
> |  
>  
>

-----  
Date: Tue, 6 Jun 2000 21:06:07 -0500  
From: "Dan W. Dooley" <dandooley@pipeline.com>  
To: <w1rfi@arrl.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [72103] Re: DSL?  
Message-ID: <011001bfd029\$f732c780\$0400a8c0@bergenbrunswick.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

No noise that I'm aware of. Been on DSL for a couple of weeks now.

Dan W. Dooley WB5TKA Bedford, Texas EM12ku  
e-mail to: dandoooley@pipeline.com  
May Goddes love blest ye alle  
SOC#198  
"Ancient Pistol, I do partly understand your meaning."

----- Original Message -----

From: Hare, Ed, W1RFI <w1rfi@arrl.org>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Tuesday, June 06, 2000 5:56 PM  
Subject: RE: DSL?

> While we are on the subject of DSL, can anyone share with me any reports  
> of  
> AM BC and HF noise levels before and after a DSL installation?  
>  
> I would be especially interested in any VDSL reports.  
>  
> 73,  
> Ed Hare, W1RFI  
> ARRL Laboratory Supervisor  
> 225 Main St  
> Newington, CT 06111  
> Tel: 860-594-0318  
> FAX: 860-594-0259  
> Internet: w1rfi@arrl.org  
> ARRL Web: <http://www.arrl.org>  
> ARRL Technical Information Service: <http://www.arrl.org/tis/>  
>  
>

-----  
Date: Tue, 6 Jun 2000 22:45:01 EDT  
From: REDSBOY@aol.com  
To: qrp-l@lehigh.edu  
Subject: [72104] Hacker info. . .  
Message-ID: <db.51b4fd9.266f112d@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Tonight at 8:26 CDT while I was browsing, a hacker attempted to break into my computer. Two days ago I had installed a free 10-day trial copy of "Lockout" which prevents breakins.

Lockout did its job. First there was the siren that went off in the computer to indicate a hacker making an attempt. Lockout immediately put a screen up saying the attempt was blocked. It gave me a "Wait while we trace it." message. and in just a couple of seconds it printed the 14 (that's correct) connections the hacker went through to hit my computer and traced him back to his screen name and original server. By clicking on the appropriate bar, the log is now recorded for whatever action is to be taken.

I wonder how many times I have had hackers break in and I was unaware. I thought I was pretty safe as long as I watched out for virus stuff and trojan horses. Who would have thought someone would be interested in what's inside my box. But come to think of it, there's some VERY interesting stuff stored in there - like credit card info.

I apologize for the bandwidth, but if this had happened to one of you folks, I would have wanted you to let me know.

73,

Karl - W4UTI

-----  
Date: Tue, 6 Jun 2000 20:59:08 -0600  
From: "Ron Smith" <resmith666@uswest.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [72105] Re: DSL?  
Message-ID: <005f01bfd02c\$5dee4ce0\$0200000a@uswest.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> No noise that I'm aware of. Been on DSL for a couple of weeks now.

Been on DSL for over a year now -- No noise from DSL -or- the five computers on the network!

Ron Smith  
KD7VD  
Boise, Idaho



-----  
Date: Tue, 06 Jun 2000 23:21:36 -0400  
From: KD1YV <kd1yv@mindspring.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [72106] Re: OT: DSL?  
Message-ID: <393DBFBF.73CF30AC@mindspring.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Dave,

Here's what telco says. I can neither confirm nor deny their claims:

--

72/73 de Jim, KD1YV

Would cars be less expensive if it weren't for all of those annoying TV ads?

> What is the difference between DSL and cable modems?  
> DSL provides always-available high-speed Internet access over a single dedicated telephone line.  
> Cable modems offer high-speed Internet access over a shared cable television line.  
>  
> While cable modems may have greater theoretical downstream (from the Internet to the home)  
> bandwidth capabilities, that bandwidth is shared among all users in a neighborhood, and will  
> therefore vary, perhaps dramatically, as more users in a neighborhood get online at the same  
> time.  
>  
> Upstream traffic (from the customer premise to the Internet) over cable modems will in many  
> cases be slower than DSL, either because the particular cable modem is inherently slower, or  
> because too many people in a neighborhood are trying to send or receive data at the same time -  
> causing congestion in the local cable network.  
>

david fouchey wrote:

> How does the speed of DSL compare to a Cable Modem? (What's the maximum  
> transfer rate for both on average?)

>  
> Dave WA4EMR/8

-----  
Date: Tue, 6 Jun 2000 21:56:02 -0500  
From: "Dan W. Dooley" <dandooley@pipeline.com>  
To: <dafouchey@home.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [72107] Re: OT: DSL?  
Message-ID: <017401bfd02f\$6c3339c0\$0400a8c0@bergenbrunswick.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

For one thing (and I'll be a little sarcastic here - sorry), the DSL will be up while the cable modem is broken.

Years ago I "fired" my cable company and went with DSS satellite. Too much down time and lousy service. Just recently my two sons have both gone with cable modems and have experienced outages.

How many times has your telephone service gone out? DSL is tied more to that.

That aside, supposedly one problem with cable is that the throughput decreases based on the load and number of subscribers. So, if your entire neighborhood went cable modem, a 2400 baud dialup might sound appealing.

Cable does have some things to argue in its favor, but all things considered, I'll stick with my DSL. Actually I haven't figured out a way to calculate transfer rate here. Anybody have any technique?

Dan W. Dooley WB5TKA Bedford, Texas EM12ku  
e-mail to: dandooley@pipeline.com  
May Goddes love blest ye alle  
SOC#198  
"Ancient Pistol, I do partly understand your meaning."

----- Original Message -----  
From: david fouchey <dafouchey@home.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Tuesday, June 06, 2000 8:47 PM  
Subject: Re: OT: DSL?

> How does the speed of DSL compare to a Cable Modem? (What's the maximum  
> transfer rate for both on average?)  
>  
> Dave WA4EMR/8  
>

-----  
Date: Tue, 6 Jun 2000 22:18:26 -0500  
From: "Dan W. Dooley" <dandooley@pipeline.com>  
To: <wb5rue@stic.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [72108] Re: DSL?  
Message-ID: <017601bfd02f\$6e5b9800\$0400a8c0@bergenbrunswick.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I wonder what the REAL culprit was. Wonder if he had the network before he  
had the DSL. And, what kind of network.

I've run an Ethernet net at my house for a long time. CAT 5 UTP cable and  
have not had any noise problems. Wonder if different kinds of hubs could be  
noisier? Could the DSL modem itself be at fault? I've had DSL for a  
couple of weeks now and have detected no increase in noise level.

Interesting question and dilemma.....

Dan W. Dooley WB5TKA Bedford, Texas EM12ku  
e-mail to: dandooley@pipeline.com  
May Goddes love blest ye alle  
SOC#198  
"Ancient Pistol, I do partly understand your meaning."

----- Original Message -----

From: Kevin Muenzler WB5RUE <wb5rue@stic.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Tuesday, June 06, 2000 9:06 PM  
Subject: RE: DSL?

> I had a "neighbor" some quarter of a mile away install DSL and a small  
> in-home network in his house. He was only in this house for a period of

six

> months while he did some work for the county. During this time I was  
> "blessed" with S5 to S9 noise levels from 160-2 meters. It was severe  
> enough on 2 meters to prevent me from doing any real DX SSB. I helped him  
> shield his network cables by using some shielded twisted pair lines but  
the

> DSL still gave me severe noise all across HF. SO, if you want to  
"abandon"

> HF or at least weak signal HF DSL will be fine. (sarcasm)

>

> 72/73

> Kevin, WB5RUE

>

> > -----Original Message-----

> > From: owner-qrp-l@Lehigh.EDU

> > [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of

> > Hare, Ed, W1RFI

> > Sent: Tuesday, June 06, 2000 5:56 PM

> > To: Low Power Amateur Radio Discussion

> > Subject: RE: DSL?

> >

> >

> > While we are on the subject of DSL, can anyone share with me

> > any reports of

> > AM BC and HF noise levels before and after a DSL installation?

> >

> > I would be especially interested in any VDSL reports.

> >

> > 73,

> > Ed Hare, W1RFI

> > ARRL Laboratory Supervisor

> > 225 Main St

> > Newington, CT 06111

> > Tel: 860-594-0318

> > FAX: 860-594-0259

> > Internet: w1rfi@arrl.org

> > ARRL Web: <http://www.arrl.org>

> > ARRL Technical Information Service: <http://www.arrl.org/tis/>

> >

> >

> >

> > -----Original Message-----

> > From: James Skalski [mailto:jskalski@localnet.com]

> > Sent: Tuesday, June 06, 2000 6:44 PM

> > To: Low Power Amateur Radio Discussion

> > Subject: OT: DSL?

> >

> >

> > I am thinking of dumping my ISP and going to DSL. This would  
> > allow me to  
> > drop the dedicated phone line and the ISP charge.  
> >  
> > Does anyone have an opinion about whether I should get a splitter or  
> > microfilters for my phones? I am close enough to the Phoneco  
> > at 4900feet  
> > for any type of DSL. I would probably opt for the cheapest  
> > version which  
> > would be about \$49. That would bring it close to the cost of  
> > a separate  
> > phone and ISP. It would a performance increase of about 11X.  
> >  
> > What kinds of rates are you guys getting? Direct response might be  
> > best. Although this list is internet based and might be useful info.  
> >  
> > 73,  
> >  
> > Jim n2go  
> >  
>

-----  
Date: Tue, 6 Jun 2000 22:14:16 -0500  
From: "Dan W. Dooley" <dandooley@pipeline.com>  
To: <kd1yv@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-  
l@Lehigh.EDU>  
Subject: [72109] Re: OT: DSL?  
Message-ID: <017501bfd02f\$6d25d720\$0400a8c0@bergenbrunswick.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I went with the DSL offer from Earthlink/MindSpring. No change of ISP so I could keep my address.

\$49 per month with free install (by a technician) and free equipment including the "modem" and a NIC for my computer. Five e-mail addresses and 10 Meg of Web space (up from 3 addresses and 5 M). I also get up to 20 hours of free dialup service. That's important to me since I travel and need access on the road.

I don't get the line below which says "One dynamic IP address". Wonder if that should be "Static" IP address? Wish I had that!

I think one thing everyone should be aware of is that you may not always see the lightening speed which you expect to. Especially for Web page loading. Remember, the fastest transfer is only going to be as good as the slowest Web server out there. When a page still seems to take a long time to load and you see the little computers in your sys tray with darkened screens, remember, it's not your connection to your ISP portal slowing things down. It's a server somewhere out in Internetland which is crawling or crashing. Yep, most pages will load real fast. File transfers will be much, much faster and e-mail downloads (even the huge attachments one of your friends insists on sending you) will be much faster. Still, some Web sites are dogs.

Oh yea, you can get rid of that second phone line. The one you had for modem/fax access. Now you get to put your fax machine on your home line. Lovely! I found out that in some areas, a second line is still needed. Maybe more correct to say a second line pair. So, at least for me, the DSL signal does not ride on my regular phone line pair.

And then there's the big question of security. With the always on connection, thoughts of a firewall are entertained.....

Dan W. Dooley WB5TKA Bedford, Texas EM12ku

e-mail to: dandoooley@pipeline.com

May Goddes love blest ye alle

SOC#198

"Ancient Pistol, I do partly understand your meaning."

----- Original Message -----

From: KD1YV <kd1yv@mindspring.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Tuesday, June 06, 2000 8:27 PM

Subject: Re: OT: DSL?

> Here's what the CT telco is offering. It's a pretty good deal, but you have  
> to be within 17,000 feet (cable distance) of the central office. I'm 21,000  
> (by my map figuring), so they won't even attempt it. However, they are in  
> the process of installing some sort of remote concentrators or such, so that  
> folks like me will be able to get it in the future.  
>  
> A colleague at work has this, and is thrilled with the speed. It's like  
> "click" and the page is displayed. Click and the next page is displayed.  
> No waiting!  
> --

> 72/73 de Jim, KD1YV  
> Would cars be less expensive if it weren't for all of those annoying TV  
ads?  
>  
> =====  
> Take advantage of our DSL Internet Access for just \$39.95 per month  
> (requires a one-year term  
> agreement) and includes free DSL equipment and installation. The promotion  
> is available to new  
> and existing Residential or Business SBC Internet Services\* customers.  
>  
> Our DSL Internet Access includes:  
>  
> Free DSL equipment - Modem, Network Interface Card (NIC), and Splitter (if  
> required).  
> Free installation with customer self-install; \$99 installation charge for  
> technician install  
> Unlimited "always on" Internet access 24 hours a day, 7 days a week  
> Tech support 24 hours a day, 7 days a week  
> Free dial-up with SNET Internet Services.  
> One Dynamic IP address  
> 5 email boxes  
> A free personal home page up to 5MB  
> News group access  
> Browser software  
> How fast is it?  
> Connection speeds for DSL typically range from 384Kbps to 1.544Mbps  
> downstream and  
> 128Kbps upstream. In addition, a DSL line allows for one line to carry  
both  
> voice and data  
> signals, and for the data part of the line to be continuously connected,  
so  
> you can talk on your  
> phone line at the same time you're surfing the Internet.  
>

-----  
Date: Tue, 06 Jun 2000 20:32:56 -0700  
From: Patrick Armstrong <aa7fg@gte.net>  
To: qrp-1@lehigh.edu  
Subject: [72110] Help with DX Handy HF handheld?  
Message-ID: <393DC268.31DE3A86@gte.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hello All,

I just acquired a fantastic little rig the Mizuho 10 meter SSB/CW 2W handheld transceiver... I have a couple of questions to anyone who has experience with these radios. Mine is stock and tunes from 28.250 to 28.350. Who makes crystals to move this coverage up to a more popular 28.400-28.500 range? What values and specs do I need to give the vendor? My manual does not cover this, but only suggests that I contact the vendor (AEA) for details. Also, the radio will accept a speaker mic to aid in operation and I am interested in purchasing one... Any suggestions would be greatly appreciated. Any stories or experiences would also be greatly welcomed from fellow owners... This is a real neat rig and I know I am very fortunate to own one. Appreciate this great group and many thanks for the bandwidth...

Pat, AA7FG - Oregon...

-----  
Date: Tue, 06 Jun 2000 17:38:29 -1000  
From: "Art Neilson, WH7N" <art@pilikia.hi.net>  
To: jessqrp@uswest.net  
Cc: qrp-l@lehigh.edu  
Subject: [72111] Re: DSL?  
Message-ID: <3.0.6.32.20000606173829.0094d310@pilikia.hi.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Roger that, I also have DSL and CAT5 cable strung all around my house for my home LAN, and operate HF every evening FB.

At 08:21 PM 6/6/00 -0600, you wrote:

>I have DSL and an internal network in the house that runs over the phone  
>wiring. No problems whatsoever with anyh radio interference.

>

>Jess

>----- Original Message -----

>From: Kevin Muenzler WB5RUE <wb5rue@stic.net>

>To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

>Sent: Tuesday, June 06, 2000 8:06 PM

>Subject: RE: DSL?

>

>

>> I had a "neighbor" some quarter of a mile away install DSL and a small  
>> in-home network in his house. He was only in this house for a period of



>six  
>> months while he did some work for the county. During this time I was  
>> "blessed" with S5 to S9 noise levels from 160-2 meters. It was severe  
>> enough on 2 meters to prevent me from doing any real DX SSB. I helped him  
>> shield his network cables by using some shielded twisted pair lines but  
>the  
>> DSL still gave me severe noise all across HF. SO, if you want to  
>"abandon"  
>> HF or at least weak signal HF DSL will be fine. (sarcasm)  
>>  
>> 72/73  
>> Kevin, WB5RUE  
>>  
>> > -----Original Message-----  
>> > From: owner-qrp-1@Lehigh.EDU  
>> > [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of  
>> > Hare, Ed, W1RFI  
>> > Sent: Tuesday, June 06, 2000 5:56 PM  
>> > To: Low Power Amateur Radio Discussion  
>> > Subject: RE: DSL?  
>> >  
>> >  
>> > While we are on the subject of DSL, can anyone share with me  
>> > any reports of  
>> > AM BC and HF noise levels before and after a DSL installation?  
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>> > I would be especially interested in any VDSL reports.  
>> >  
>> > 73,  
>> > Ed Hare, W1RFI  
>> > ARRL Laboratory Supervisor  
>> > 225 Main St  
>> > Newington, CT 06111  
>> > Tel: 860-594-0318  
>> > FAX: 860-594-0259  
>> > Internet: w1rfi@arrl.org  
>> > ARRL Web: <http://www.arrl.org>  
>> > ARRL Technical Information Service: <http://www.arrl.org/tis/>  
>> >  
>> >  
>> >  
>> > -----Original Message-----  
>> > From: James Skalski [mailto:jskalski@localnet.com]  
>> > Sent: Tuesday, June 06, 2000 6:44 PM  
>> > To: Low Power Amateur Radio Discussion  
>> > Subject: OT: DSL?  
>> >  
>> >

```

>> > I am thinking of dumping my ISP and going to DSL. This would
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>> > version which
>> > would be about $49. That would bring it close to the cost of
>> > a separate
>> > phone and ISP. It would a performance increase of about 11X.
>> >
>> > What kinds of rates are you guys getting? Direct response might be
>> > best. Although this list is internet based and might be useful info.
>> >
>> > 73,
>> >
>> > Jim n2go
>> >
>>
>>
>
>
>
--

```

```

  /--/  _/_  It is a capital mistake to theorise before one has data.
 /--/  _/_  Insensibly one begins to twist facts to suit theories,
 /  (_/  (_<  Instead of theories to suit facts.
                -- Sherlock Holmes, "A Scandal in Bohemia"
Arthur W. Neilson III, WH7N - FISTS #7448
Bank of Hawaii Tech Support
http://www.pilikia.hi.net
art@pilikia.hi.net, aneilson@boh.com, wh7n@arrl.net

```

```

-----

Date: Tue, 6 Jun 2000 20:38:32 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Stephen Trier <sct@po.cwru.edu>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [72112] Re: Mixers other than the NE602
Message-ID: <Pine.BSI.3.96.1000606203612.15917A-100000@usr01.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

```

```
> I found the SD8901 in a Calogic databook about a year ago, but I remember
> Gary Breed mentioning it in a talk he gave at FIDM ~4 years ago. It's a
> MOSFET ring mixer with a fairly high third-order intercept. With 7 dBm
> drive, its IP3 is +25 dBm, and with 17 dBm drive, its IP3 is +38 dBm.
> That's 8-10 dB above the anonymous diode ring mixer the datasheet uses for
> comparison. The mixers have a conversion loss of 8 dB.
>
> I haven't tried to get my hands on any of these yet, but they look promising.
> There are two drawbacks to them. First, to get really good IP3, they need
> 10-15 dBm of drive. Second, they require external components that are pre-
> integrated in the NE602 and Minicircuits mixers.
>
```

<http://www.primenet.com/~ctrask>

Chris

```

      ,-----'
    /   What's all this   \
  / extinct stuff, anyhow? \
 \-----'
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            '-| | :. \
              | | | \
               c__ ; c__ ; '...'>._

```

Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Email: [ctrask@primenet.com](mailto:ctrask@primenet.com)  
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

-----  
Date: Tue, 06 Jun 2000 22:43:09 -0500  
From: Dave Sjolín <sjolin@swbell.net>  
To: sslyon@worldnet.att.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [72113] Re: CME... VHF CONTEST PROPAGATION  
Message-ID: <393DC4CC.438E8901@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

S LYON wrote:

>  
> -at least aurora prop should be spec tac u lar, correcto? What say you,  
> prognosticators?

With the K-index expected to hit 8 or 9, the aurora might reach down  
into the southern US.

The aurora should occur sometime between Weds and Friday ... most likley  
Thursday night. I'm no expert but unless there are additional flares,  
the aurora should be gone PRIOR to the VHF contest.

Enjoy it while you can.

73 de Dave, N0IT

p.s. If you dont operate VHF, 160 is known to produce some pretty neat  
enhanced propagation when major aurora is present.

-----  
Date: Tue, 6 Jun 2000 20:48:43 -0700 (PDT)  
From: Monte Stark <ku7y@dri.edu>  
To: K2UD@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [72114] Re: [TEST] Sprint  
Message-ID: <Pine.GS0.4.10.10006062045560.22424-1000000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 6 Jun 2000 K2UD@aol.com wrote:

> But, nah. I don't think the kW  
> mentality can even hear us!

I don't know about that Howard,

I think that most QRO contest stations can "out hear" just about any QRP station!

There are only a small hand full of QRPers that have spent the bucks to have the locations and antennas to compare!

: -)

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....  
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....  
....Visit my Home Page.....<http://www.qsl.net/ku7y/>....

-----

Date: Tue, 6 Jun 2000 03:47:57 -0600  
From: "Carlos J. Caro" <cjcaro@nail.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [72115] Re: Speed of Light  
Message-ID: <010601bfcf9c\$4d09d100\$4ad396d8@default>

Isn't the RF traveling as a wave when it leaves your antenna ?? If it were not a wave how would it couple to the "ether".

The part that I wonder about is : Transmission lines do not have the propagation constant of free air, ergo the RF is traveling slower than the speed of light. Yet when it couples out as a wave it does so at the speed of light. From where comes the boost.

And also how can a collection of mass so dense that light can't get out be considered a "HOLE", black or otherwise. :-)

From: "Rick - WW9JD" <ww9jd@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Tuesday, June 06, 2000 09:19  
Subject: Re: Speed of Light

> Hi Joel,  
>  
> > Interesting.... But a question I have been wanting to ask for years...  
> >  
> > The speed of light is always referenced as "light speed in a vacuum".  
> >  
> > I never understood that. How can light be in a vacuum. If there are

> > light particles (photons) in the "Vacuum", then it's not a vacuum.  
> >  
> > .. joel (queen mary)  
> >  
> > --  
> > /joel K1QM (k1 queen mary), Concord, MA.  
> > QRP-L #337, QRP-ARCI #9305, MI-QRP #1641  
>  
> I only teach 8th Grade physical science, but as I understand it as  
> light travels through a vacuum it is traveling as a wave. A wave is  
> energy moving from one place to another, and not a movement of  
> matter.

-----  
Date: Wed, 07 Jun 2000 00:16:44 -0400  
From: John Wagner <john@neknetwork.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [72116] SMK-1 No smoke!  
Message-ID: <393DCCAC.B115890B@neknetwork.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I guess I can piggyback on W2APF's announcement of completing an SMK-1 this evening. And I too, for the first time ever, can say that it worked the first time - and that's a first for me for sure.

A couple of things I thought I'd toss out here to the list;

Pros:

- I enjoyed building the kit immensely, and found it to be as rewarding as other kits I've built.

- I don't think the system of the sub-baggies could be done any better. I can't imagine it being done any other way. Well done, very well done, bravo, pat yourself on the back whoever thought of that.

- The instructions were excellent.

- I'm very impressed with the value of this kit.

- After getting up from the workbench, I felt taller and bigger than I ever have in my life. As I look at the kit now, I can't believe I

actually soldered those flea size parts!

Cons:

- Although I enjoyed building the kit, I don't feel I learned as much by using these parts. I don't have a feel for how the circuit works by looking at the board with the parts on it and matching it up with the schematic. I find it's much easier to follow a schematic with through-hole parts.

- Not being able to ID some of the parts after removal from their baggy is dangerous for kit building. I felt I had to be absolutely perfect while building the kit because if I misplaced a part, backtracking might be impossible.

I don't know if I want to build another SM kit after this. I really did enjoy building it, but I'm just not sure I want to do it again. That's my honest opinion. If it sounds negative, forgive me - it's not intended to be. I'm very impressed with the radio, even more so with the packaging. I don't think there is a better value in this price range for a usable transceiver.

72/73

John, KB1ENS

--

John Wagner - [john@neknetwork.com](mailto:john@neknetwork.com)

Web page: <http://www.neknetwork.com>

Sign up for PayPal:

<https://secure.paypal.com/refer/pal=john%40neknetwork.com>

-----

Date: Wed, 7 Jun 2000 00:32:45 -0700

From: Randy D Jobe <[n9yai@juno.com](mailto:n9yai@juno.com)>

To: [qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)

Subject: [72117] Kester solder for K2, Thanks

Message-ID: <20000607.003246.-544793.0.n9yai@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Just wanted to say thanks to everyone who replied to my query about the solder. Within 4 hours after I posted, I had 5 responses and had logged on to a site and ordered the solder I was looking for. This reflector is great. thanks to everyone again

Thanks and 72's

Randy Jobe (N9YAI)

-----  
Date: Wed, 7 Jun 2000 07:30:50 -0700  
From: "Graham Firth" <graham.firth@btinternet.com>  
To: "qrp-l" <qrp-l@lehigh.edu>, "GQRP list" <GQRP@egroups.com>  
Cc: "Bill Kelsey" <kanga@bright.net>, "John Leak" <G0bxo@btinternet.com>  
Subject: [72118] Sprat 103  
Message-ID: <002201bfd08d\$16fb5740\$02010080@graham>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi

I shall be printing the labels for the next SPRAT magazine this weekend -  
will I be printing a label for you?

If your last magazine had 2000 (or greater) on it - then I will. If not,  
you'd better renew (or even join!) quickly!

John Leak will accept renewals by post or e-mail (with a suitable credit  
card details) for anywhere in the world. US & Canada members can contact  
Bill N8ET either by mail or e-mail (e-mail addresses below).

In view of the short timescale - for which I apologise - you should add me  
as a cc to e-mail renewals. This will ensure your labels will be printed.

If you are not sure of your status, an e-mail to me will get you your  
current membership status.

E-mail renewals to:  
g0bxo@gqrp.com  
kanga@mail.bright.net

Thanks

72/3

Graham  
G3MFJ/W3MFJ

g3mfj@gqrp.com

-----  
Date: Tue, 06 Jun 2000 23:45:52 -0700



From: Mighty Mik <mitymik@wenet.net>  
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>  
Subject: [72119] 6M opening...weird condx eh?  
Message-ID: <393DEFA1.31DE879B@wenet.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

june 7 at 06:33 (23:33 local) heard CW then voice a station in DN09 from CM87. CW was 539, freq was 50.125.

72 de WD8MNV

-----  
Date: Wed, 07 Jun 2000 06:58:42 -0400  
From: Andrew Comas <acomas@bellatlantic.net>  
To: qrp-1@lehigh.edu  
Subject: [72120] FS: FT-990,FT-690R II,ARK-4,KAM+,TCV/7.0 Kit  
Message-ID: <393E2AE1.98201761@bellatlantic.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

For sale, prices include shipping and handling to continental US. Others negotiable.. Personal checks will wait to clear before shipping,

Yaesu FT-990 built-in tuner, power supply, 250 Hz CW filter, MD-1 desk mic, original carton and manual. Has had Yaesu ROM upgrade to fix CAT interface problem. QRP modified

- power range is 5 to 100 watts (though you must use 12 watts or greater to set the autotuner if necessary, then you

can lower the power)... \$1250.

Yaesu FT-690R II - 2.5W, SSB/AM/CW/FM, 50-54 MHz. Includes: 10 watt amp; mic, manual; original box and antenna, C cell/NiCds battery pack; FTS-7A tone board install; and shoulder strap... \$350.00

KAM Plus (v8.3) with cables, manuals, original box... \$220.00

ARK-4 40 Meter QRP rig. Push button tuning, 5W out, Built-in Curtis keyer, RIT, Audio filter, manuals, great backpacking

rig, only 1.5" high x 5.5 x 7.5", steel case.. \$70.00

Hands TCV/7.0 (40m CW) kit with AGC/750hz filter and  
sidetone, no box, no keyer.. \$40.00

Key 1 iambic keyer (with Curtis 8044 ABM chip) kit. \$25.00

Iambic Keyer kit - Kanga - \$15.00

G5RV kit, 2AU center insulator with lighting arrestor,  
pre-cut 14 AWG copper wire, 33 foot ladder line  
(polyethylene) and 3 ceramic insulators .. \$25.00

Thanks  
Andrew - N2ZT

-----  
Date: Wed, 7 Jun 2000 06:05:08 -0500  
From: "Faith III, Don C" <FaithD@mail01.dnr.state.wi.us>  
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>  
Subject: [72121] Re: DSL?  
Message-ID: <54F85D7F6DE2D01184EF0000F80495350272A127@MAIL04>  
MIME-Version: 1.0  
Content-Type: text/plain

I found the noise in my home was from the Ethernet hub. Switched to a  
different brand (and slower speed, 10 Mbs unit) to clear up the problem  
(after trying a swap of the first hub w/ an identical replacement; a 10/100  
Mbs unit).

73/72 de N9WR

-----  
Date: Wed, 07 Jun 2000 07:37:34 -0400  
From: "John P. Cummins, Sr." <jpcummins@worldnet.att.net>  
To: qrp-1 Server <qrp-1@Lehigh.EDU>, NOGA QRP <nogaqrp@qth.net>, GARS  
<GARS@onelist.com>  
Subject: [72122] Great Telegraphy Site  
Message-ID: <393E33FE.35A3CB3D@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Here is a great site if you are interested in telegraphy...!

[http://fohnix.metronet.com/~nmcewen/tel\\_off.html](http://fohnix.metronet.com/~nmcewen/tel_off.html)

Pickett, AD4S

-----  
Date: Wed, 07 Jun 2000 08:01:45 -0400  
From: Rick Sealey <rsealey@InfoAve.Net>  
To: qrp-l@lehigh.edu  
Subject: [72123] Re: [TEST] Sprint  
Message-ID: <4.1.20000607075853.00953400@mail.infoave.net>  
MIME-version: 1.0  
Content-type: text/plain; charset="us-ascii"

At 12:29 PM 06/06/2000 -0400, you wrote:  
>> OQRPP: Let's get back to QRP. The 602/612 seems the chip we love and  
>> hate. Cheap, functional, overloads easily and hard to get, at least  
>> for the short term. ;-)  
>> So what other mixer technology is out there that works well for QRP  
>> purposes? Especially low power drain.  
>  
>Rod,  
>  
>Depends. For light work a simple swizzle stick does fine. For heavier work I  
>use a fork or a whisk.  
>  
>Dave

-----  
Yeah, but how do you calculate the input impedance?

Rick - W4SEA

-----  
Date: Wed, 7 Jun 2000 08:04:22 EDT  
From: Bigbob97@aol.com  
To: baltimoremd@baltimoremd.com, qrp-l@lehigh.edu  
Subject: [72124] Re: [TEST] Sprint  
Message-ID: <9f.656aa2a.266f9446@aol.com>  
MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Maybe we can agree to just try not use "SS" on the 6th of June, if it is offensive to some of our brothers. Thanks to all those who made the ultimate sacrifice for us so many years ago.

73,  
Bob WB2DHK in Jersey City, NJ

-----  
Date: Wed, 07 Jun 2000 08:07:44 -0400  
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>  
To: qrp-l <qrp-l@Lehigh.EDU>  
Subject: [72125] Re: [TEST] Sprint  
Message-ID: <002701bfd078\$ffdb7a90\$2d0a05cc@rochester.com>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

> At 12:29 PM 06/06/2000 -0400, you wrote:  
> >> OQRPP: Let's get back to QRP. The 602/612 seems the chip we love and  
> >> hate. Cheap, functional, overloads easily and hard to get, at least  
> >> for the short term. ;-)  
> >> So what other mixer technology is out there that works well for QRP  
> >> purposes? Especially low power drain.  
> >  
> >Rod,  
> >  
> >Depends. For light work a simple swizzle stick does fine. For heavier  
work I  
> >use a fork or a whisk.  
> >  
> >Dave  
> -----  
>  
> Yeah, but how do you calculate the input impedance?

Rick,

Empirically. I turn the bowl over. If the contents runs out, it's low impedance. If it stays put, it's high impedance. If it's my typical pancake batter, I use it to set a tower base in the ground.

Dave

-----  
Date: Wed, 7 Jun 2000 08:06:55 EDT  
From: Rick McKee <kc8aon@juno.com>  
To: qrp-l@Lehigh.EDU  
Subject: [72126] WTB HW-8  
Message-ID: <20000607.080709.4599.0.kc8aon@juno.com>

Gang,

A friend of mine is looking to buy an HW-8, and maybe the HW-7 & 9 also. He is not on the list (YET) so please email him direct with what you have to offer. His email address is:

n9dmk@arrl.net

Thanks for the bandwidth.

73...Rick McKee KC8AON { CW lives as long as I do ! }  
Willow Wood, Ohio "oo's"  
AR QRP # 269 QRP-L # 2112 ZOMBIE # 718 FPqrp # 33  
TriState BrassPounders # 1

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
Juno now offers FREE Internet Access!  
Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Wed, 7 Jun 2000 06:15:59 -0600  
From: "Steve/n0tu" <n0tu@webaccess.net>  
To: "QRP-L" <QRP-L@lehigh.edu>  
Subject: [72127] FS: Bencher Paddle  
Message-ID: <014201bfd07a\$244a4d60\$5448460f@snp.webaccess.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Black Bencher paddle. Works fine - minor paint chips \$55 Shipped.  
Steve/n0tu

-----  
Date: Wed, 07 Jun 2000 08:34:46 -0400  
From: Rick Sealey <rsealey@InfoAve.Net>  
To: qrp-l@lehigh.edu  
Subject: [72128] Re: [PROP] SEVERE storm likely  
Message-ID: <4.1.20000607081255.009bb5c0@mail.infoave.net>  
MIME-version: 1.0  
Content-type: text/plain; charset="us-ascii"

Keep 'em coming, Paul, and thanks! It's amazing what daily information we get here on the QRP-L, and this frequent solar report is el premo! Yeah, I know I can find this on the Web and often do, but the occasional timely synopsis from Paul is pretty much what I need, and it's delivered automatically to my email box. What a deal. And what a great service, especially at the current part of the sunspot cycle.

Just think, when your neighbor ham comes screaming out of the house exclaiming the demise of his/her hf equipment, you can tell them you already knew about it, and explain what's happening. You'll be a hero. (Or, you could offer to take it off their hands, cheap.)

Thanks again, Paul,  
Rick - W4SEA  
High Point, NC

At 12:54 PM 06/06/2000 -0600, you wrote:

>Update 1300 MDT 6 June 2000

>

----- SNIP -----

>I will post today's NOAA RSGA with commentary when it is released

>later today for those interested in this upcoming "biggie."

>

>72, Paul NA5N

>

>

-----  
Date: Wed, 7 Jun 2000 08:36:52 EDT  
From: Jdd41@aol.com  
To: qrp-l@lehigh.edu  
Subject: [72129] (no subject)  
Message-ID: <77.5116355.266f9be4@aol.com>

MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

postpone

-----  
Date: Wed, 7 Jun 2000 09:04:21 -0400  
From: "Everhart, Joseph @ CSE" <jeverhar@mail.cse.l-3com.com>  
To: "'pstrdave@kdsi.net'" <pstrdave@kdsi.net>  
Cc: "'ARDUJENSKI@aol.com'" <ARDUJENSKI@aol.com>, "'qrpl'" <qrpl@lehigh.edu>  
Subject: [72130] Re: PORTABLE ANTENNA-loop or inverted vee  
Message-ID: <56AE25C909CED311BEA70000D11AD11E3A0C71@l3c-xchg-cse.mail.cse.l-3com.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

David,

Not quite so. We used one of the DQ9SQ masts to hold up a 1 lb Gusher 40/20 meter inverted vee at FDI/Dayton a couple of years back. It is less flimsy than the 20 foot "crappie poles" which \*will\* bend seriously with even such a light dipole.

72/73,

Joe E., N2CX

David Heintzleman wrote:

the mast won't hold up the dipole, even as an inverted vee. Mast will bend drastically - same with loop - the light-weight loop that is sold to go with the mast is bit flimsy, hard to stabilize.  
I would go with New Wave's Portapole, see AES catalog - for aluminum collapsable masts, bit pricey but really good  
Dave K8BM

ARDUJENSKI@aol.com wrote:

>  
> I am curious as to the advantage of a 66ft loop used on the DK9SQ mast vs  
a  
> 40M dipole with two 33 ft legs used on the DQ9SQ mast, if any (other than  
> cost)---  
>

> Alan KB7MBI

-----  
Date: Wed, 7 Jun 2000 09:24:29 -0400  
From: "Ron McConnell" <rcmcc@lucent.com>  
To: <qrp-1@lehigh.edu>  
Cc: "'Ed-W1RFI Hare'" <w1rfi@arrl.org>, <jskalski@localnet.com>, "'Ronald McConnell'" <rcmcc@lucent.com>  
Subject: [72131] RE: OT: DSL?  
Message-ID: <001901bfd083\$b67ad660\$91051187@adc\_lab9.amc.bell-labs.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

First: As Ed points out, DSL is NOT OT for qrp-1. Mutual RFI between radio services and the various xDSL systems has been the subject of work in the North American and world xDSL standards bodies. AM broadcast interference can and does affect ADSL rates. ADSL operates only up to about 1.1 MHz. VDSL uses the spectrum between 138 kHz and at least 12 MHz, not counting lower level out-of-band components up to 20, 30 MHz. One concern is the effect on weak signal SWL and ham radio reception. The ARRL (Ed) and the RSGB have been involved for the last several years.

Second: Splitter or microfilter? YES!!!  
xDSLs and voiceband phone gadgets (telephone sets, modems, answering machines, faxes, etc.) can do nasty things to each other. There are many of us who believe the idea of splitterless DSL is fundamentally flawed. There are cases where it will work, but the splitters and filters could/will save headaches with weird problems. The idea of splitterless ADSL was pushed by the computer industry, not by the telephone industry. BTW: "Microfilters" are now officially "Inline Filters" and the standard is in the approval process.

Third: The only real deployment of VDSL is in the Phoenix area by USWest using



Next Level Comm. systems with Broadcom chips.  
I just got a note yesterday from a non-ham buddy  
who just got VDSL service. I will drop him a note  
to see what he's hearing and if he has  
any ham friends. My contacts in USWest,  
Broadcom and Next Level haven't reported  
any cases of RFI (yet).

Believe it or not, VDSL is a case where interference  
TO hams is a major worry by the industry  
and not the traditional case of interference FROM hams.  
The VDSL standards have the HF ham bands built in  
for optional -20dB transmit filters.  
I still find this amazing.

Now I gotta get to work and go in the lab  
and do some DSL rate measurements  
as soon as I finish my email.

Cheers, 73,

Ron McC.

-----  
Date: Wed, 7 Jun 2000 08:26:26 -0500  
From: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
To: "'Dan W. Dooley'" <dandooley@pipeline.com>, "'Low Power Amateur Radio  
Discussion'" <grp-l@Lehigh.EDU>  
Subject: [72132] RE: DSL?  
Message-ID: <000001bfd083\$fbcb2170\$ef5d6f81@v8.uthscsa.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

He was using what, at the time, was called "phonenet." Basically it used  
the phone lines in your house as a 10mb network. I helped him rewire his  
phone system with some shielded data cable but that didn't help much. It  
very well could have been his DSL modem but it did go away completely when  
he moved.

72/73  
Kevin, WB5RUE

> -----Original Message-----  
> From: Dan W. Dooley [mailto:dandooley@pipeline.com]  
> Sent: Tuesday, June 06, 2000 10:18 PM

> To: wb5rue@stic.net; Low Power Amateur Radio Discussion  
> Subject: Re: DSL?  
>  
>  
> I wonder what the REAL culprit was. Wonder if he had the  
> network before he  
> had the DSL. And, what kind of network.  
>  
> I've run an Ethernet net at my house for a long time. CAT 5  
> UTP cable and  
> have not had any noise problems. Wonder if different kinds  
> of hubs could be  
> noisier? Could the DSL modem itself be at fault? I've  
> had DSL for a  
> couple of weeks now and have detected no increase in noise level.  
>  
> Interesting question and dilemma.....  
>  
>  
> Dan W. Dooley WB5TKA Bedford, Texas EM12ku  
> e-mail to: dandoooley@pipeline.com  
> May Goddes love blest ye alle  
> SOC#198  
> "Ancient Pistol, I do partly understand your meaning."  
>  
>

-----  
Date: Wed, 7 Jun 2000 08:39:38 -0500  
From: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
To: <REDSBOY@aol.com>, "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>  
Subject: [72133] RE: Hacker info. . .  
Message-ID: <000101bfd085\$d3b1b5d0\$ef5d6f81@v8.uthscsa.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

It probably wasn't a "hacker" so to speak. Most likely it was what is called a "net-bot" or "web-bot". What these things do is scan the internet for computers that have accessed their web sites. They look for different software packages that might be running on your computer. I run a program called ZoneAlarm that does the same thing. I just turned off the alarm but keep the blocking in place. It got so that I would get eight or ten hits a night from different sites. Since there is really no way for a hacker to know who you are in advance it probably was not directed at you in

particular.

Here's how this net-bot probably found your computer. Let's say that you have an ISP called "mynet.com." This ISP has a range of IP addresses at his disposal. Let's say he has the range from 189.43.0.0 through 189.43.255.255, he's a pretty big provider. Each time you log in you are assigned one of those addresses which may or may not change with each login. Mr. net-bot knows that users from this IP have hit his web site and might be running a particular software package that he offers for download. This software package will provide him with certain information about your computer. It "listens" for this net-bot on port 1843. So what the net-bot does is "scan" every address in this IP range for computers and tries to attach to port 1843. There are three things that will happen when he scans addresses.

1. There is no computer on this address. In this case he gets "time out."
2. The computer is there but not "listening" to that port. In this case he gets an error that generically says "connection refused."
3. The computer is there and is running his software and listening to that port. In this case his software does it's thing and goes on.

What your software might do is watch for connections to "unused ports" and block access. What ZoneAlarm does is intercept these port requests and simply ignore them instead of returning the "connection refused" error. It appears to the net-bot that there is no computer at that particular address.

Since you are on AOL the target was most likely "all" AOL subscribers. There may be a "hole" in AOL's internet software that the net-bot was looking for. Your software may have stopped it.

I hope this helps.

73/72

Kevin, WB5RUE

-----  
Date: Wed, 07 Jun 2000 10:02:36 -0400  
From: Rick Sealey <rsealey@InfoAve.Net>  
To: qrp-l@lehigh.edu  
Subject: [72134] OT: Re: Hacker info. . .  
Message-ID: <4.1.20000607093303.009cb5c0@mail.infoave.net>  
MIME-version: 1.0  
Content-type: text/plain; charset="us-ascii"

I really dislike Off Topic posts and try to refrain from them, but us

QRPers use basically two communications channels - ham radio and the Internet. So, in my opinion, this is at worst, a gray area, and at best, probably On Topic, so I'm commenting.

Karl brings up a valid point, especially with mention of DSL and Cable Modem connections. While it applies to all Internet connections, including dial-up, DSL and Cable are online anytime and all the time your computer is on! This can leave it extremely vulnerable to attack.

For single user computer systems, Karl mentioned "Lockout", a good software firewall product, but there are others, including "Black Ice Defender" from Network Ice, about \$50. However, there is a free downloadable product that is very effective. It is called "Zone Alarm" and is located at

<http://www.zonelabs.com>

I have used Black Ice and Zone Alarm, and they both are good products. Also, there are many more coming on the market.

Regardless of which you choose, you should not be on the Internet without some type of software that will notify you of what's going on in your computer behind your back and you need a way to control what's coming into and going out of your system. To open your eyes, try Steve Gibson's website

<http://www.grc.com>

and have the site probe your computer ports for vulnerability. Then download Zone Alarm (or other software firewall of your choice), install it, and go back to Steve's site and try again. And while you're there, download OptOut to see how many AdBots have been installed on your computer without your knowledge - another eye opener.

Rick - W4SEA  
High Point, NC

Disclaimer: I have absolutely no affiliation with any of these companies, but I do have the ultimate respect for Steve Gibson, and have had for years.

-----  
At 10:45 PM 06/06/2000 -0400, you wrote:

>Tonight at 8:26 CDT while I was browsing, a hacker attempted to break into my  
>computer. Two days ago I had installed a free 10-day trial copy of "Lockout"  
>which prevents breakins.

>

----- SNIP -----

>Karl - W4UTI

-----  
Date: Wed, 7 Jun 2000 09:07:38 -0500  
From: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
To: <rsealey@InfoAve.Net>, "'Low Power Amateur Radio Discussion'" <qrp-  
l@Lehigh.EDU>  
Subject: [72135] Re: Hacker info. . .  
Message-ID: <000101bfd089\$bdd05fb0\$ef5d6f81@v8.uthscsa.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

My appologies to the list. I didn't mean for my answer to go to everyone.

Kevin, WB5RUE

-----  
Date: Wed, 07 Jun 2000 10:04:33 -0400  
From: "John P. Cummins, Sr." <jpcummins@worldnet.att.net>  
To: qrp-l Server <qrp-l@Lehigh.EDU>  
Subject: [72136] FDIM 2000 QRM Symposium Proceedings  
Message-ID: <393E5670.46549FFE@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Just a reminder that anyone who received a copy of the FDIM 2000 QRP Proceedings that would like the missing text at the bottom of page 92 can send me their address and I will return a stick on label that contains the missing text that can be affixed to the bottom of page 93.

Pickett, AD4S

-----  
Date: Wed, 7 Jun 2000 09:07:18 -0500  
From: "Cla KA0GKC" <ka0gkc@arrl.net>  
To: <ARDUJENSKI@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [72137] Re: PORTABLE ANTENNA-loop or inverted vee  
Message-ID: <041101bfd08a\$51c08920\$0200000a@mcg.net>

Alan KB7MBI wrote:

| I am curious as to the advantage of a 66ft loop used on the DK9SQ mast vs a  
| 40M dipole with two 33 ft legs used on the DQ9SQ mast, if any (other than  
| cost)---

The loop will give you about 2db gain broadside to the loop over the inverted V and has a decent null in the plane of the loop. This can be an advantage if you can rotate the antenna and use these characteristics. It's also a bit quieter on receive and at low heights probably has a lower angle of radiation.

I hope this was the answer you were looking for, it didn't seem that previous replies addressed your question.

Hope this Helps,  
73 de Cla KA0GKC

-----  
Date: Wed, 7 Jun 2000 10:19:28 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <rsealey@InfoAve.Net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [72138] Re: Hacker info. . .  
Message-ID: <001e01bfd08b\$9adbf080\$2101a8c0@insydesw.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I agree, go to GRC and IMMEDIATLEY use the utilities there to at least do a quick check of what's going on!!

A friend of mine just got the 'one wire does all' service to his house. It's not the cable company, or the phone company, but he gets all the cable stuff, video on demand, 4 premiums, all the super basic cable, and two local phone lines for a price that's hard to believe. AND he didn't even have to 'give up' his local phone number, he got to keep it!

But yes, now his systems appear 'live on the net'. And he has a few around his house.

He picked up a 'mini hub' from a company in California for \$150. Sounds kind of expensive, but where most 'mini hubs' have a jack to feed to other existing networks, this 'feed through' jack is a mini-firewall. Not bad!! He hasn't torn the thing apart, but he

suspects it's running some kind of 'mini-kernal' of Linux with the firewall software.

\$150....

I think that's going to be on the budget when I can finally get cable modems in my neighborhood.

Mike

> I really dislike Off Topic posts and try to refrain from them, but us  
> QRPers use basically two communications channels - ham radio and the  
> Internet. So, in my opinion, this is at worst, a gray area, and at  
best,  
> probably On Topic, so I'm commenting.  
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> firewall product, but there are others, including "Black Ice Defender"  
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> <http://www.zonelabs.com>  
>  
> I have used Black Ice and Zone Alarm, and they both are good products.  
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> <http://www.grc.com>  
>  
> and have the site probe your computer ports for vulnerability. Then

> download Zone Alarm (or other software firewall of your choice),  
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> download OptOut to see how many AdBots have been installed on your  
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> Rick - W4SEA  
> High Point, NC  
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> Disclaimer: I have absolutely no affiliation with any of these  
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"Lockout"  
> >which prevents breakins.  
> >  
> ----- SNIP -----  
> >Karl - W4UTI  
>  
>  
>

-----  
Date: Wed, 07 Jun 2000 10:22:41 -0400  
From: Jake Brodsky <frussle@erols.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [72139] Re: Speed of Light  
Message-ID: <0amsjs0g0p6rf31prehtp5tubuu20lpeik@4ax.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: quoted-printable

On Tue, 6 Jun 2000 22:25:03 EDT, Jim wrote:

>....and think of this: The supreme court actually ruled in favour of =



DeForest=20

>during his battles with Armstrong. Goes to show how smart the courts =  
are! =20

Yeah, but the peers of DeForest and Armstrong knew better. It was  
Armstrong, not DeForest, who received a standing ovation before the  
IRE after the courts made their decision known. They knew who stole  
what from whom. See the documentary "Empire of the Air" by Ken Burns  
(I know that one of the Burns brothers did the documentary, but I not  
sure which one). =20

In any case, I really think the press should have waited for the  
completion of the peer review before publishing anything about it.  
This is yet another example of irresponsible reporting. =20

73,

Jake Brodsky, <mailto:frussle@erols.com>

"Nearly fifty percent of all graduates came from=20  
the bottom half of the class."

-----

Date: Wed, 07 Jun 2000 07:25:38 -0700  
From: Phil Wheeler <[w7ox@earthlink.net](mailto:w7ox@earthlink.net)>  
To: [jpcummins@worldnet.att.net](mailto:jpcummins@worldnet.att.net)  
Cc: Low Power Amateur Radio Discussion <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>  
Subject: [72140] Re: FDIM 2000 QRM Symposium Proceedings  
Message-ID: <[393E5B62.F88D995A@earthlink.net](mailto:393E5B62.F88D995A@earthlink.net)>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hmmmm .. was the QRM in the title of this message an editorial  
assessment :-;

Phil

"John P. Cummins, Sr." wrote:

>

> Just a reminder that anyone who received a copy of the FDIM 2000 QRP  
> Proceedings that would like the missing text at the bottom of page 92  
> can send me their address and I will return a stick on label that  
> contains the missing text that can be affixed to the bottom of page 93.

>

> Pickett, AD4S

-----

Date: Wed, 7 Jun 2000 07:28:14 -0700 (PDT)  
From: Monte Stark <ku7y@dri.edu>  
To: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [72141] RE: Hacker info. . .  
Message-ID: <Pine.GSO.4.10.10006070727321.25613-100000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Kevin,

I found your post very interesting and informative. I'm glad you posted it here on the list.

Thanks,

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....  
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....  
....Visit my Home Page.....<http://www.qsl.net/ku7y/>....

-----

Date: Wed, 7 Jun 2000 09:29:00 -0500  
From: "Cla KA0GKC" <ka0gkc@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [72142] Re: Time for a QRP-L FAQ?  
Message-ID: <046601bfd08d\$25f45940\$0200000a@mcg.net>

I'm glad Jim chimed in on the FAQ. Yup, I've been working with him to test the software and write up some info. We are also looking into a web based search engine for the archives as well. This stuff is going to happen and I have a list of QRP-Lers I'm going to call upon to write addition FAQ material. Jim and I both have busy schedules so it will be awhile yet. Remember, this is a hobby.

Also, there are a lot of resources actually available. The message you received when you signed on describe how to search the archives via email. I've used this and it does work once you understand how to do it. Also the FTP site is still there and available and lots of good QRP stuff. Most web browser will allow an FTP address and show the directories. You don't need to learn to use an FTP program.

73 de Cla KA0GKC

-----  
Date: Wed, 7 Jun 2000 10:47:46 -0400  
From: "Richard E. Robinson" <rerobins@email.uncc.edu>  
To: REDSBOY@aol.com  
Cc: qrp-1@lehigh.edu  
Subject: [72143] Re: Hacker info. . .  
Message-ID: <v03102801b5640f5ba303@[152.15.144.71]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

This is a Windows based observation so Mac users can ignore or delete this post.

We have a situation here on the UNCC campus that occurs when a user opens "Network Neighborhood" and sets off "Hacker" alarms on machines in the same zone running firewall software. "Network Neighborhood" poles for devices in the zone having file sharing turned on and this is setting off the alarms. I was made aware of this problem by an administrator in another department having this alarm set off by some of my Psychology lab machines. He was concerned that this was an attempt to hack into his server by one of our Psych majors.

I'm not sure this problem occurs in every firewall package, but is a common occurrence here.

Has anyone else seen this happen?

72,

Rick kf4ar

-----  
Date: Wed, 07 Jun 2000 10:51:05 -0400  
From: "Paul Helbert, Wv3j" <phelbert@rica.net>  
To: Low Power Discussion Group <qrp-1@Lehigh.EDU>  
Subject: [72144] current BALUN question  
Message-ID: <393E6159.853112EA@rica.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gangue,

Somewhere in the past I read an article about using or ferrite beads of a certain size on the outside of a coaxial cable to make a one to one BALUN. I got some beads and they lead me to the following questions:

1) If 50 beads of a given size are specified, would half that number give half the impedance or half the power handling capability? I now have blisters on my fingers and fourteen beads on my cable. If I don't run over five watts am I okay if fifty were specified for use at 250 watts?

2) Does it matter if the beads are all lumped together as closely as possible, or may they be here and there along the line?

Thanks,

Paul, Wv3j

PS: Checkout new photos and links on website:  
<http://home.rica.net/phelbert>

-----  
Date: Wed, 7 Jun 2000 10:51:24 EDT  
From: Wb8siw@aol.com  
To: frussle@erols.com, qrp-1@lehigh.edu  
Subject: [72145] Re: Speed of Light  
Message-ID: <d9.5222699.266fbb6c@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 06/07/2000 10:24:16 AM Eastern Daylight Time, frussle@erols.com writes:

<< Yeah, but the peers of DeForest and Armstrong knew better. It was Armstrong, not DeForest, who received a standing ovation before the IRE after the courts made their decision known >>

Absolutely...The IRE (now IEEE) refused to allow Armstrong to return their award for invention of the regenerative circuit when the court case was lost. DeForest was noted as little more than a common thief, having stole a variety of inventions. For example, DeForest's electrolytic detector was stolen outright from Fessenden, the famous Canadian inventor.

His business practices weren't much better. Stock fraud went hand in hand with DeForest's business partners.

73, Jim WB8SIW

-----  
Date: Wed, 7 Jun 2000 09:05:44 -0600  
From: "Dave Ek" <ekdave@earthlink.net>  
To: <qrp-l@lehigh.edu>  
Subject: [72146] Re: OT: Hacker info. . .  
Message-ID: <001701bfd091\$dbb08fc0\$3f813389@ekdant>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Gang,

I also highly recommend Steve Gibson's web site <http://www.grc.com/>. He has extensive information on internet security and also describes a big security hole in default installations of Windows (and how to fix it). When I stumbled across this site I found it to be fascinating reading and very informative.

I also use ZoneAlarm from ZoneLabs ([www.zonelabs.com](http://www.zonelabs.com)). It's free for home use, and it watches for both unauthorized access attempts from outside as well as unauthorized communications to the outside from programs already installed on your computer (possibly without your knowledge). Check out [www.radiate.com](http://www.radiate.com) -- they make software which is used by many shareware vendors (GetRight [www.getright.com](http://www.getright.com) is a well-known example) to serve up ads while connected to the net. It appears that the software also communicates information from your computer to web sites on the net. Exactly what the information consists of is debatable, but do you really want this to happen on your computer? (There's more info on this spyware on Steve Gibson's site).

73,

Dave AB0GO

-----  
Date: Wed, 07 Jun 2000 18:02:37 +0300  
From: Arjen Raateland <Arjen.Raateland@vyh.fi>  
To: QRP-L <QRP-L@lehigh.edu>  
Subject: [72147] BLT Tuner matching range?

Message-ID: <393E640D.E99@vyh.fi>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Hello BLT builders,

What would be the approximate matching range to be expected of the BLT tuner from the NorCal kit?

I finished mine a few days ago and want to check if it works properly before I take it into the field. However, I don't have the special doublet made from flat computer cable (home is in an apartment building), so I tried the tuner with my fixed 'heavy-duty' doublet (2x19,3 m with 21 m 600 Ohm open line feed) at work where I normally operate HF. On 21 MHz I could not really tune that antenna with the BLT. (I didn't try other bands.)

I then tried the BLT with a 50 Ohm dummy load (unbalanced using the 'unbalanced' mod, i.e. one end of the link grounded) and a 560 Ohm resistor (balanced). It looks like the 560 Ohm is more or less the high end of the tuning range depending on the band. A 1000 Ohm resistor seems too large to allow a match. The 50 Ohm load tunes on either the 'high' or 'low' position depending on the band.

The circuit itself is so simple and easy to check, so I'm pretty sure it's wired OK. The LED indicator works and is very quick to work with. Beats a digital SWR display any time, hi.

BTW, it may be useful to put a small drop of black paint on the back of the LED to block light shining on the LED from the back through the Lexan case cover.

What are your experiences?

73,

--

Arjen Raateland  
Finnish Environment Institute  
SAS Support  
phone +358 9 4030 0350

-----  
Date: Wed, 7 Jun 2000 10:06:27 -0500  
From: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
To: <rerobins@email.uncc.edu>, "'Low Power Amateur Radio Discussion'" <grp-

l@Lehigh.EDU>  
Subject: [72148] RE: Hacker info. . .  
Message-ID: <000001bfd091\$f6021470\$ef5d6f81@v8.uthscsa.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

In your Zone Alarm under Security you have two "areas," your local and internet areas. Under the Advanced button you can move sub-nets from the internet to local and avoid all of these alarms. At UNCC you surly have a sub net of IP addresses. For instance you might have 155.211.0.0 thru 155.211.255.255. If this is the case simply add that entire range of IP address to the "local" network of Zone Alarm. You will have to do this on every workstation where Zone Alarm is installed.

Good luck

Kevin, WB5RUE

> -----Original Message-----  
> From: owner-qrp-l@Lehigh.EDU  
> [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of  
> Richard E. Robinson  
> Sent: Wednesday, June 07, 2000 9:48 AM  
> To: Low Power Amateur Radio Discussion  
> Subject: Re: Hacker info. . .  
>  
>  
> This is a Windows based observation so Mac users can ignore  
> or delete this  
> post.  
>  
> We have a situation here on the UNCC campus that occurs when  
> a user opens  
> "Network Neighborhood" and sets off "Hacker" alarms on  
> machines in the same  
> zone running firewall software. "Network Neighborhood" poles  
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> our Psych majors.  
>

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> but is a common  
> occurrence here.  
>  
> Has anyone else seen this happen?  
>  
> 72,  
>  
> Rick kf4ar  
>  
>  
>

-----  
Date: Wed, 7 Jun 2000 11:11:41 -0500  
From: Ken Wezeman <n9qil@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [72149] FS: Transceivers  
Message-ID: <20000607.111146.-850097.0.n9qil@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Dear QRP-Lers,

I am in need of cash for another project. I have the following rigs for sale:

Oak Hills Research QRP Classic with OHR keyer built in. 0-7 watts on 40 and 0-4 watts out on 20.. VFO covers lower 100 kHz on each band. 1/8" speaker jack added on back panel. Cosmetic blemishes. Some drift on startup. \$200.00.

Heath SB-1400 with matching power supply. (This is not a kit. It was factory built and is functionally equivalent to the Yaesu 747GX.) OK, it's a QRO rig, but I've used it QRP on CW, SSB, & PSK31 with excellent results. Power cranks down to zilch from front panel. This one has 160 through 10, including the WARC bands. No microphone. Minor cosmetic blemishes on top of xcvr and top & front of power supply. This rig has not been modified. It works like the day it came off the production line. \$450.00.

Both rigs are complete with manual. Buyer to pay shipping.

Ken Wezeman, N9QIL  
Please reply off the list to: n9qil@alassociates.com



-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!

Juno now offers FREE Internet Access!

Try it today - there's no risk! For your FREE software, visit:

<http://dl.www.juno.com/get/tagj>.

-----  
Date: Wed, 7 Jun 2000 09:28:40 -0700

From: "n6wg:First n6wg:Last" <n6wg@earthlink.net>

To: <qrp-1@Lehigh.EDU>

Subject: [72150] Re: PORTABLE ANTENNA-loop or inverted vee

Message-ID: <003d01bfd09d\$71813800\$c3d2fc9e@oemcomputer>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Alan

It depends a bit on how you configure the loop.

The inverted vee dipole will have a takeoff angle somewhere around 60-70 degrees at that height, with about 6-7 db gain over an isotropic source.

If you configure the loop as a right-angle delta with feed 33 ft down from the apex, you will get a lower takeoff angle, perhaps 25-30 degrees or so. However, the loop gain will be much less, perhaps 2-3 db over an isotropic source.

On 40m during this time of year, the low takeoff angle doesn't seem to buy one much, as the prevailing propagation mode seems to be NVIS, thus favoring the dipole.

If you configure the loop for horizontal polarity, feeding either top or bottom center, receive will be a bit quieter than with the dipole. However, the center of radiation will be lower than with the dipole, thus even more emphasizing the NVIS mode.

Hope this helps a bit.

73, Bob N6WG

-----  
Date: Wed, 7 Jun 2000 09:34:59 -0700

From: schoon@amgt.com

To: <qrp-1@Lehigh.EDU>, <rerobins@email.uncc.edu>  
Subject: [72151] RE: Hacker info. . .  
Message-ID: <c=US%a=\_%p=American\_Geotech%l=AG-CALCITE-BDC-000607163459Z-419@mail.amgt.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Rich,

When you use network neighborhood, your PC is keeping a browse list, or asking the local master browser for its list. Usually the master browser for the domain your PC happens to be in is the primary domain controller. Lacking one, then it boils down to an NT server, then NT workstation, then any windows 98 or 95 machine, finally ending on any Windows for Workgroups. If any computer on the subnet has file sharing on, then it will have TCP/IP ports 139 and 137 open. If you don't need to share anything, just set up your personal firewall software to block connections to those port numbers. Good network sweep software scans a network looking for machines that have those port numbers open and should set off your alarm as well. For those interested in netbios over TCP/IP can read RFC1001 & RFC1002....

Cheers & 72!

.mark

>-----  
>From: Richard E. Robinson[SMTP:rerobins@email.uncc.edu]  
>Sent: Wednesday, June 07, 2000 7:47 AM  
>To: Low Power Amateur Radio Discussion  
>Subject: Re: Hacker info. . .  
>  
>This is a Windows based observation so Mac users can ignore or delete this  
>post.  
>  
>We have a situation here on the UNCC campus that occurs when a user opens  
>"Network Neighborhood" and sets off "Hacker" alarms on machines in the same  
>zone running firewall software. "Network Neighborhood" poles for devices  
>in the zone having file sharing turned on and this is setting off the  
>alarms. I was made aware of this problem by an administrator in another  
>department having this alarm set off by some of my Psychology lab machines.  
>He was concerned that this was an attempt to hack into his server by one of  
>our Psych majors.  
>  
>I'm not sure this problem occurs in every firewall package, but is a common  
>occurrence here.

>  
>Has anyone else seen this happen?  
>  
>72,  
>  
>Rick kf4ar  
>  
>  
>

-----  
Date: Wed, 07 Jun 2000 09:44:38 PDT  
From: "Doug Hendricks" <ki6ds@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [72152] BLT Tuner Tuning Range  
Message-ID: <20000607164438.61740.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Arjen and others wondering. The BLT balanced line tuner was designed to tune a balanced antenna for 20 - 40 meters. When I tested it with the NorCal Doublet cut for 44 ft. total antenna length and 28 feet of ribbon cable feedline, it worked 10 - 40 meters. There are of course things that you can do to extend the range. One would be to add a 200 pF cap on a switch to add capacitance to the range.

Good idea on the black paint for the back of the led. Others have suggested using black shrink wrap to do the same thing. Hope this helps.

Also, please remember that I will be leaving Friday morning at 6 AM to start my vacation. If you have ordered a kit and the order gets here before I leave, it will be shipped. Otherwise, you will have to wait until I return the first week of August. Also, I will have a few BLT's and SMK's with me on my travels. 72, Doug, KI6DS

-----  
Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

-----  
Date: Wed, 7 Jun 2000 09:48:17 -0700 (PDT)  
From: Steve Yates <aa5tb@yahoo.com>  
To: Arjen.Raateland@vyh.fi, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [72153] Re: BLT Tuner matching range?  
Message-ID: <20000607164817.8871.qmail@web3001.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Arjen

I have no experience with the BLT but I would like to mention that your method of testing the tuning range of the tuner may not give you the same results that you might experience with a real antenna system. The method you describe is using a load with a resistive component only. Unless the antenna system is already resonant there will always be a reactive component. The combination of resistive and reactive component makes up the real and "imaginary" parts of the complex impedance that your tuner sees. This of course will change with feedline length.

In other words, a resistive range test may not give you the whole story. For example, you could be feeding an antenna at a high impedance point with 600 ohm open-wire line but still have a low resistive component with a very high reactive component at the feedpoint.

Another example would be a simple series inductor. It is still an antenna tuner of sorts but will do nothing to correct any resistive mismatch. But for short antennas with a high capacitive reactance component it works great (most HF mobile antennas).

Good luck.

=====

73,

Steve Yates - AA5TB

Fort Worth, TX - EM12gs

<http://www.geocities.com/aa5tb>

[aa5tb@arrl.net](mailto:aa5tb@arrl.net)

-----  
Do You Yahoo!?

Yahoo! Photos -- now, 100 FREE prints!

<http://photos.yahoo.com>  
-----

Date: Wed, 7 Jun 2000 13:07:54 -0400 (EDT)

From: "baltimoreemd@baltimoreemd.com" <baltimoreemd@baltimoreemd.com>

To: Cla KA0GKC <ka0gkc@arrl.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [72154] Re: Time for a QRP-L FAQ?  
Message-ID: <Pine.BSI.4.05L.10006071301540.23340-100000@vh1.min.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 7 Jun 2000, Cla KA0GKC wrote:

> I'm glad Jim chimed in on the FAQ. Yup, I've been working with him to test  
> the software and write up some info. We are also looking into a web based  
> search engine for the archives as well.

I have two in place...they are searchable, have security levels, can be  
modified to handle various field types/lengths.

I'd be willing to provide space for the faq system and administer same.

Visit <http://www.min.net/~thom/>  
select Drake Amateur Radio Equipment, then Drake Online Database  
or  
select QRP, then Elecraft Owners Online Database

73  
thom

../..  
baltimoremd@baltimoremd.com Thom LaCosta K3HRN Webmaster

<a href="http://www.baltimoremd.com/">http://www.baltimoremd.com/</a>	Baltimore's Home Page
<a href="http://www.baltimorehon.com">http://www.baltimorehon.com</a>	Home of the Baltimore Lexicon
<a href="http://www.min.net/~thom/">http://www.min.net/~thom/</a>	Home of the Drake Mailing List

-----  
Date: Wed, 07 Jun 2000 10:18:28 -0700  
From: Phil Wheeler <w7ox@earthlink.net>  
To: ki6ds@hotmail.com, qrp-l@lehigh.edu  
Subject: [72155] Re: BLT Tuner Tuning Range  
Message-ID: <393E83E4.DB869523@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Doug Hendricks wrote:

>  
> Arjen and others wondering. The BLT balanced line tuner was designed to  
> tune a balanced antenna for 20 - 40 meters. When I tested it with the  
> NorCal Doublet cut for 44 ft. total antenna length and 28 feet of ribbon  
> cable feedline, it worked 10 - 40 meters. There are of course things that  
> you can do to extend the range. One would be to add a 200 pF cap on a switch  
> to add capacitance to the range.  
>

Doug,

I guess I missed the article (QRPP? Issue?) on the NorCal doublet.

Is it simply a 44 ft flattop fed in the middle with 28 ft of ribbon cable? If so, is the ribbon cable 300 ohm twin lead or what?

Since I have the tuner ordered, I'd like to build the antenna it was demoed with! Plus, at 44 ft, this sounds like a very space efficient multiband antenna.

73, Phil W70X

-----  
Date: Wed, 7 Jun 2000 13:49:19 +0100  
From: "Bob Duckworth" <wb4mnf@atl.org>  
To: <qrp-l@Lehigh.EDU>  
Subject: [72156] FREE parts. Atlanta. Pick up only!!! Act quick or they go in the dumpster!  
Message-ID: <200006071749.NAA09424@hat-trick.atl.org>

Have an old Magnavox console TV fom 70's, mostly sand state.  
Has big transformer and plug in boards.  
Also has UHF varactor type tuner as in "poor mans spectrum analyzer",  
VHF tuner, and two nice big oval speakers. Along with this, I'll throw in  
a smaller B&W TV and an older HiFi set with 8 track built in.

Don't know if any of it works.  
Left behind by tenent.

Come get 'em or they go in the dumpstster.  
404-888-0389 for the how to get here info.

-bob  
wb4mnf

-----  
Date: Wed, 7 Jun 2000 11:36:19 -0600  
From: "Rod, N0RC" <n0rc@qsl.net>  
To: "qrp-1" <qrp-1@Lehigh.EDU>  
Subject: [72157] Another X flare?  
Message-ID: <009901bfd0a8\$037efbc0\$f7891004@compaq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

If I interpret the data correctly for the graph at:

<http://www.sel.noaa.gov/today.html>

Then we've had another X class flare just a few minutes ago, approx. 1730utc. I think I may have actually "heard it". I had the 20m NCDXF freq. dialed up while working it the shack and heard burst static at approx. that time.

This is cool stuff.

---  
72/3 Rod, N0RC -- Fort Collins, CO

-----  
Date: Wed, 7 Jun 2000 12:42:28 -0600 (MDT)  
From: "Paul Harden, NA5N" <na5n@rt66.com>  
To: qrp-1@lehigh.edu  
Cc: "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>, gqrp@onelist.com  
Subject: [72158] [PROP] Solar Storm Update  
Message-ID: <Pine.SUN.4.10.10006061710200.15827-1000000@shell.rt66.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,  
Tuesday, 3 major flares on the sun (an M-class and 2 X-class) were positioned such that the shock waves will impact the earth. While we have seen several X-class flares this solar cycle, none have been positioned in the center of the sun to impact us this directly. The next few days, starting thursday evening, should be very exciting as the shock wave from these 3 flares reaches us, triggering some major geomagnetic storms and possible auroral activity into the center of the U.S. How strong of an

effect we'll experience will become more obvious as the shock wave gets closer and satellites measure it's passage.

If it triggers an extremely severe geomagnetic storm, then power grid failures, damage to satellites and things like that are possible as well.

For QRPers/hams, the bands will be pretty much trashed for the duration of these geomagnetic storms, from around late thursday into the weekend. HF blackout conditions may also occur.

Below is tuesday's report on solar and geomagnetic activity of these events, commented for those so interested. I'll post these daily reports for the next few days, as this is truly a major solar/HF propagation event that occurs only a few times during most solar cycles.

72, Paul NA5N  
-----

> JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

> SDF NUMBER 158 ISSUED AT 2200Z ON 06 JUN 2000

> IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/2100Z

> TO 06/2100Z: SOLAR ACTIVITY WAS HIGH. THREE MAJOR EVENTS OCCURRED IN

> THE PERIOD, ALL FROM REGION 9026 (N20E10). A X1/2B FLARE WITH AN

> ACCOMPANYING 560 SFU TENFLARE OCCURRED AT 06/1339UT. THIS EVENT WAS

> FOLLOWED BY AN M7/2N EVENT AT 06/1401UT. THE LARGEST EVENT OF THE

> PERIOD WAS AN X2/3B FLARE AT 06/1525UT.

The above is describing the 3 flares.

An M-class flare is a MAJOR flare

An X-class flare is an EXTREMELY major flare (largest class of flares)

> THIS EVENT ALSO PRODUCED A TYPE II SWEEP (1189 KM/S),

There are various types of "radio storms" that occur during and shortly after a major flare. A Type II sweep is a phenomenon caused by the shockwave of the flare passing through the sun's magnetic field lines, generating radio energy. It will sweep from a very high frequency (hundreds of MHz) downward (into HF) about 2 MHz per second. By measuring the lowest frequency of the sweep as time goes on, one can determine how far away from the sun the shockwave has traveled and how fast it is traveling. In this case, measurements of the radio sweeps indicate the shock wave is traveling nearly 1200 km/second. That is a VERY energetic shockwave. It will slow down some, but will likely hit the earth in the 900 km/sec range, more than sufficient to trigger a major geomagnetic storm and aurora.



- > A FULL-HALO CME WAS CREATED BY
- > THIS EVENT AND WAS MONITORED BY THE LASCO/EIT SPACECRAFT TODAY.

A CME (coronal mass ejection) is the MASS from the sun being blown outward by the force of the flare. The particles get trapped in the magnetic field lines of the DISTURBANCE (not the sun's field lines) which forms a halo appearance. This "halo" of particles, in this case, escaped the sun and is what is now headed toward us ... a shock wave of high velocity and high particle density that will compress our magnetic field when it hits, triggering a geomagnetic storm.

- > REGION 9026 REMAINS A LARGE REGION (800 MILLIONTHS) WITH AN "F" TYPE
- > BETA-GAMMA-DELTA CONFIGURATION.

A BETA-GAMMA-DELTA configuration means there are intense magnetic field lines running between the sunspots inside this region in very complex fashion ... indicative of further major flare activity is possible. This is interesting in itself, since this region has thus far produced 3 major flares and yet the region shows no sign of decay yet. Hmmm...

- > IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE AT
- > MODERATE TO HIGH LEVELS. REGION 9026 CAN BE EXPECTED TO CONTINUE TO
- > PRODUCE M-CLASS EVENTS ALONG WITH ISOLATED X-CLASS FLARES.

- > IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 05/2100Z TO 06/2100Z:
- > THE GEOMAGNETIC FIELD WAS MOSTLY UNSETTLED TO ACTIVE WITH A SINGLE
- > PERIOD OF MINOR STORMING AT MID-LATITUDES FROM 06/18-2100UT.

This short period of geomagnetic storming was due to the arrival of solar particles from a coronal hole, and had nothing to do with all the flare activity.

- > THE D-REGION
- > ABSORPTION FROM THE INTENSE (X2) X-RAY EVENT EXTENDED TO THE POLAR
- > CAP REGIONS OF THE DAYLIGHT SIDE OF THE EARTH.

This is due to the ionizing radiation from the X-class flares, which penetrated far into our atmosphere, stripping electrons off molecules in the D-layer. All of these free electrons in the D-layer causes higher than normal absorption to HF signals trying to get through to the E and F layers, and thus produces near blackout conditions. This effect will be worse the lower in frequency you go.

- > IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
- > EXPECTED TO BE MOSTLY QUIET TO UNSETTLED FOR THE FIRST DAY OF THE
- > PERIOD WITH POSSIBLE ISOLATED ACTIVE PERIODS. ACTIVITY SHOULD
- > INCREASE TO ACTIVE TO MINOR STORMING ON THE SECOND DAY OF THE

> PERIOD, DUE TO THE ARRIVAL OF AN EARTH-DIRECTED FULL-HALO CME, AS  
> DESCRIBED ABOVE. ACTIVITY SHOULD INCREASE ON THE THIRD DAY TO MAJOR  
> STORM CONDITIONS, ESPECIALLY AT HIGHER LATITUDES.

Day 3 will be friday, June 9th, when the shock waves from the 3 major flares will arrive, triggering a MAJOR geomagnetic storm, with some estimates being a SEVERE geomagnetic storm. It all depends on the speed and density of the shock wave, and how directly it may (or may not) hit the earth. As a minimum, it will be a MAJOR storm.

> PCAF           YELLOW <--- An alert for a Polar Cap Absorption event in the  
                                  higher latitudes, like Alaska. If the proton  
                                  flux increases as a result of these flares, we  
                                  will see high D-layer absorption in the middle  
                                  latitudes and total absorption (blackout) in  
                                  the higher latitudes.

> IV.   PENTICTON 10.7 CM FLUX  
> OBSERVED               06 JUN 186  
> PREDICTED   07 JUN-09 JUN 185/195/210  
> 90 DAY MEAN            06 JUN 189

> V.   GEOMAGNETIC A INDICES  
> OBSERVED AFR/AP 05 JUN 022/026  
> ESTIMATED AFR/AP 06 JUN 018/018  
> PREDICTED AFR/AP 07 JUN-09 JUN 015/018-030/035-050/075  
                                  ^ ^ ^ ^ ^   ^ ^ ^ ^ ^   ^ ^ ^ ^ ^

Estimated A-index for:           WED       THU       FRI

-----  
Date: Wed, 7 Jun 2000 12:48:42 -0600 (MDT)  
From: "Paul Harden, NA5N" <na5n@rt66.com>  
To: qrp-l@lehigh.edu  
Cc: "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>  
Subject: [72159] Solar Update: 7JUN 1800UTC  
Message-ID: <Pine.SUN.4.10.10006071242420.1407-100000@shell.rt66.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Region 9206, now smack on the sun's meridian, produced yet another X-class flare (X.1) about 1530 UTC today. The shock wave from this flare will hit the earth around mid-to-late day saturday, pretty well wiping out the weekend! This means there will be major geomagnetic

storming and near to total HF blackouts from thursday evening (from tuesday's flares) throughout the weekend, virtually continuously. This will also produced enhanced auroral activity, for which predictions of the extent of the "auroral oval" will be issued by agencies later and I'll repost here.

PROTONS. Also a few hours ago, the proton flux reaching the earth has exceeded alert thresholds. This means D-layer absorption will be getting very high in the middle latitudes (which will appear as an HF blackout on lower frequencies, less than 10-14 MHz) and a full-scale Polar Cap Absorption Event (PCA) in the higher latitudes. This basically means our friends in Alaska will be in the "dark" for many days will very high absorption to HF signals.

And the real effects of all of this, namely the arrival of the shock waves, is still more than a day away!!!

72, Paul NA5N

-----  
Date: Wed, 07 Jun 2000 14:02:11 -0500  
From: "J. W. (Dub) Thornton" <dub@oklahoma.net>  
To: qrp-1@lehigh.edu  
Subject: [72160] RE: Hacker info. . .  
Message-ID: <4.2.0.58.20000607135443.00a8a970@mail.oklahoma.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Kevin & other posters:

This subject may not be exactly QRP, but it most certainly is of interest to QRP'ers. While I was reasonably up to speed on the subject, I still learned more from the posts. I feel quite certain there will be many of us who will benefit, some more, some less.

Thanks for the info. "72"

-

J. W. (Dub) Thornton WA5YFY  
Minco, OK.

-----  
Date: Wed, 7 Jun 2000 14:19:11 -0500  
From: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>

Subject: [72161] RE: Hacker info. . .  
Message-ID: <000001bfd0b5\$43411560\$ef5d6f81@v8.uthscsa.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks to all of those who have encouraged me about my post regarding this subject. Yes it was sort of off-topic but not really, as many have said to me.

Again to those who have sent me the encouraging messages, thank you.  
To those who chastised me... :P

72/73  
Kevin, WB5RUE  
Leeniers?! We dunt need no steenkink leeniers!

-----  
Date: Wed, 7 Jun 2000 15:14:11 -0700  
From: "Mark Paley" <mpaley@wcnet.org>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [72162] too many rigs, not enough time  
Message-ID: <000701bfd0cd\$b6170be0\$4aac85cd@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I am selling the following:

Tentec Century 21 analog...works perfectly, real hot receiver...cosmetically  
8 1/2+...\$200.00

Tentec Century digital...works perfectly, cosmetically about 8 1/2+...\$225.

Tentec Antenna tuner/SWR bridge model 277 a few slight scratches on front  
panel...\$50.

Tentec XTAL calibrator model 276--will swap for XTAL calibrator 226 or sell  
for \$25.

I have only owned the above mentioned equipment for a few months--just  
picked up a Century 22--the rig of my dreams so I won't need these items.

Thanks,

Mark Paley--KF8KL--

K2 #250  
mpaley@wcnet.org  
<http://www.wcnet.org/~mpaley>

-----  
Date: Wed, 07 Jun 2000 18:14:12 +0300  
From: Arjen Raateland <Arjen.Raateland@vyh.fi>  
To: ki6ds@hotmail.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [72163] Re: BLT Tuner Tuning Range  
Message-ID: <393E66C4.1E006E05@vyh.fi>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Doug Hendricks wrote:

>  
> Arjen and others wondering. The BLT balanced line tuner was designed to  
> tune a balanced antenna for 20 - 40 meters. When I tested it with the  
> NorCal Doublet cut for 44 ft. total antenna length and 28 feet of ribbon  
> cable feedline, it worked 10 - 40 meters. There are of course things that  
> you can do to extend the range. One would be to add a 200 pF cap on a switch  
> to add capacitance to the range.

Thanks Doug. The tuner is clearly intended for portable QRP use as is  
the NorCal doublet antenna. They should make a great pair.

However, I don't have any flat computer cable at hand. In the shop I  
asked they had only 10 meters left anyway, hi. Instead I have a lot of 8  
m pieces of twisted pair from ethernet cable and I built a doublet of  
similar dimensions with two pieces of that. I will try the BLT with that  
contraption when I get the chance.

I don't expect know the twisted pair to have loss as low as the flat  
cable because the twisted pair has less spacing and more dielectric  
between the wires, but let's hope it tunes up well. It's all in the  
dimensions. The NorCal antenna has the added advantage that one doesn't  
need to figure out which lengths work best with the BLT tuner.

73,

--

Arjen Raateland  
SAS Support

Finnish Environment Institute, Helsinki

AX.25: OH2ZAZ@OH2RBI.FIN.EU

-----  
Date: Wed, 7 Jun 2000 14:33:26 -0500  
From: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>  
To: "'Jensen, Eric'" <ejensen@siemens-psc.com>  
Cc: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>  
Subject: [72164] RE: Hacker info. . .  
Message-ID: <000101bfd0b7\$4029d860\$ef5d6f81@v8.uthscsa.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Look at this from the side :P It's me with my tongue sticking out.

72  
Kevin

> -----Original Message-----  
> From: Jensen, Eric [mailto:ejensen@siemens-psc.com]  
> Sent: Wednesday, June 07, 2000 2:23 PM  
> To: 'Kevin Muenzler, WB5RUE '  
> Subject: RE: Hacker info. . .  
>  
>  
> Kevin,  
>  
> ....By the way, what does :P mean?  
>  
> Eric  
> ki0mf  
>

-----  
Date: Wed, 07 Jun 2000 15:32:38 -0400  
From: Frank Alwine <n1gpy@together.net>  
To: qrp-1@Lehigh.EDU  
Subject: [72165] Re: Solar Update: 7JUN 1800UTC  
Message-ID: <393EA356.F362B4E7@together.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

>Region 9206, now smack on the sun's meridian, produced yet another  
>X-class flare (X.1) about 1530 UTC today. The shock wave from this  
>flare will hit the earth around mid-to-late day saturday, pretty well  
>wiping out the weekend! This means there will be major geomagnetic  
>storming and near to total HF blackouts from thursday evening (from  
>tuesday's flares) throughout the weekend, virtually continuously. This  
>will also produced enhanced auroral activity, for which predictions of  
>the extent of the "auroral oval" will be issued by agencies later and  
>I'll repost here.

Bad news for HF but potentially good news for VHF fans, especially  
since the ARRL June VHF contest starts 1800Z Saturday (ends 0300Z  
Monday UTC). Widespread aurora/auroral E would be most welcome!

72/73 es CU on 6M/2M,

Frank KT1VT FN34kp in Vermont

-----  
Date: Wed, 07 Jun 2000 15:49:52 -0400  
From: david fouchey <dafouchey@home.com>  
To: na5n@rt66.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [72166] Re: Solar Update: 7JUN 1800UTC  
Message-ID: <393EA760.DC60A26E@home.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Paul did anyone ever tell you what a bearer of good news you were?  
(Tongue FIRMLY in cheek). Sounds like good old Sol is getting frisky.  
Hope the sky is clear over the rest of the week at night..see how far  
south the Aurora will be visible.

These notices of yours are really neat Paul, thanks for the news and the  
explanations!

Dave  
WA4EMR/8

"Paul Harden, NA5N" wrote:

>  
> Region 9206, now smack on the sun's meridian, produced yet another  
> X-class flare (X.1) about 1530 UTC today. The shock wave from this  
> flare will hit the earth around mid-to-late day saturday, pretty well  
> wiping out the weekend! This means there will be major geomagnetic  
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> tuesday's flares) throughout the weekend, virtually continuously. This  
> will also produced enhanced auroral activity, for which predictions of  
> the extent of the "auroral oval" will be issued by agencies later and  
> I'll repost here.  
>  
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> exceeded alert thresholds. This means D-layer absorption will be getting  
> very high in the middle latitudes (which will appear as an HF blackout  
> on lower frequencies, less than 10-14 MHz) and a full-scale Polar Cap  
> Absorption Event (PCA) in the higher latitudes. This basically means  
> our friends in Alaska will be in the "dark" for many days will very high  
> absorption to HF signals.  
>  
> And the real effects of all of this, namely the arrival of the shock  
> waves, is still more than a day away!!!  
>  
> 72, Paul NA5N

-----  
Date: Wed, 07 Jun 2000 13:20:12 -0700 (PDT)  
From: Charlie Lofgren <clofgren@benson.mckenna.edu>  
To: qrp-l <qrp-l@lehigh.edu>  
Cc: CLOFGREN@benson.mckenna.edu  
Subject: [72167] BLT tuning range  
Message-ID: <Pine.PMDF.3.96.1000607122058.126346B-1000000@BENSON.MCKENNA.EDU>  
MIME-version: 1.0  
Content-type: TEXT/PLAIN; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Here a few quick notes on the NorCal BLT's tuning range--

When Doug asked me for a design, he wanted one to cover 40 meters. By playing with the tank circuit in the "single-band" z-match that I had included as a second option in my z-match article in vol. 5 of the ARRL Antenna Compendium, I thought I could do 40-20 using readily available components.

The result is what you find in the NorCal BLT kit. (Incidentally, all I sent Doug was a schematic. Doug and NorCal deserve all the credit for the fine layout, etc. I'm amazed at the good things NorCal produces!)

Frankly, with the capacitors now available, it's a bit of a stretch to get full coverage from 40 through 20, reliably with various load impedances. Note the "reliably." With particular load impedances, the range may be greater, or less. In this regard, keep in mind that the matching range will be affected by the composition as well as the magnitude of the load



(both R and X, and not just total Z).

My prototype used 140/80 pf caps, for a paralleled range of about 10-220 pf. The caps available from Mousser are (I believe) 140/60 pf, which makes things even a bit more iffy.

Anyone wanting to optimize the BLT for 40/30 might try increasing the tank inductor (L1) by 4 turns, from 16 to 20 turns. I'd add them at the top end, leaving the ground tap at 8 turns from the bottom (and with the links still centered around the ground tap, per Doug's instruction sheet).

To optimize for 30/20, try reducing L1 by 2 or 4 turns, to 14 or 12 turns total, with the ground tap at 7 or 6 turns. Here I'd reduce the high impedance link to 10 turns, and the low impedance link to 4 turns.

Anyone with access to higher value "poly" variable caps could also substitute them (perhaps 140/80, or 140/140, both of which I've found at swapmeets here in the LA area). Especially on 40 meters, increasing the maximum capacitance of C1 (the series input capacitor) will help with low impedance loads.

As for the basic circuit--it's the same as in a regular "single-coil" z-match (either EmTech's ZM-2, or my design as found in vol. 5 of the Antenna Compendium or in QRP Quarterly, also available from me by return email.) The difference is substitution of a regular parallel-tuned tank circuit in the BLT for the multi-band tank circuit in the regular z-match. The range of impedances capable of being matched should be about the same in either case, at least if you stay away from the ends of the tuning range of the BLT.

If you have access to dual-section poly caps with at least about 265 pf per section, there is nothing stopping you from substituting them and building the BLT kit as a regular z-match for 80-10. With 140/140 caps, you could do a 40-10 version. The T-106-2 toroid for the inductor will work in either one, though the turns will have to be adjusted and you'll need smaller wire to fit them on the core. If I were doing a 40-10 version, however, I'd probably go to a T-106-6 core, for improved Q at the 10 meter end.

One option for an antenna that's super portable is a W3EDP. I rigged one up the other day and found the stock BLT, per Doug's instructions, handled it nicely on both 40 and 20. Hand capacitance effects were noticable on 30, but disappeared when the long leg was reduced from 85 feet to ~63 feet. (The standard 'EDP consists of two legs, one 17' and one 85', connected directly to the tuner output terminals.)

Charlie Lofgren, W6JJZ

clofgren@mckenna.edu

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Date: Wed, 7 Jun 2000 16:45:11 -0700  
From: "Mark Paley" <mpaley@wcnet.org>  
To: "Tentec Reflector" <tentec@contesting.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [72168] RE: too many rigs, not enough time  
Message-ID: <006301bfd0da\$6cc8a540\$4aac85cd@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks for the responses--the XTAL calibrator is spoken for.

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I am selling the following:

Tentec Century 21 analog...works perfectly, real hot receiver...cosmetically 8 1/2+...\$200.00

Tentec Century digital...works perfectly, cosmetically about 8 1/2+...\$225.

Tentec Antenna tuner/SWR bridge model 277 a few slight scratches on front panel...\$50.

Tentec XTAL calibrator model 276--will swap for XTAL calibrator 226 or sell for \$25.

I have only owned the above mentioned equipment for a few months--just picked up a Century 22--the rig of my dreams so I won't need these items.

Thanks,  
Mark Paley--KF8KL--

K2 #250  
mpaley@wcnet.org  
<http://www.wcnet.org/~mpaley>

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Date: Wed, 07 Jun 2000 15:31:55 -0400  
From: Bob Kellogg <ae4ic@nr.infi.net>  
To: phelbert@rica.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [72169] Re: current BALUN question  
Message-ID: <393EA32B.6D61362D@nr.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Paul,

In order to make a Balun that covers 160M, you have to use twice as many beads as one for 80M. I guess that answers your question. :-)

"Paul Helbert, Wv3j" wrote:

> 1) If 50 beads of a given size are specified, would half that number  
> give half the impedance or half the power handling capability?

Hope this helps.

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73,

Bob Kellogg, AE4IC, Greensboro, NC  
Prolobly, not nececelery. - Benny Hill

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Date: Wed, 7 Jun 2000 16:54:40 EDT  
From: Wb8siw@aol.com  
To: dafouchey@home.com, qrp-1@lehigh.edu  
Subject: [72170] Re: Solar Update: 7JUN 1800UTC  
Message-ID: <13.64853fa.26701090@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 06/07/2000 3:57:03 PM Eastern Daylight Time,  
dafouchey@home.com writes:

<< Hope the sky is clear over the rest of the week at night..see how far

south the Aurora will be visible. >>

Too bad I can't afford gas to go camping in Northern Michigan this year. I bet the display would look great over Lake Superior!

73, Jim WB8SIW

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Date: Wed, 7 Jun 2000 17:03:49 EDT  
From: K2UD@aol.com  
To: qrp-1@lehigh.edu  
Subject: [72171] Re: Solar Update: 7JUN 1800UTC  
Message-ID: <6d.4d69e20.267012b5@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Sounds like an excellent opportunity for QRPers to give 6M a try, after tomorrow night. Especially if the lower frequencies are going to fold up as predicted.

Fire up those Ten-Tec transverters, 2N2/6's, or my current favorite, the ICOM IC-502 at 3W. Hear fluttery CW? It's coming from the Aurora!

72

Howard Kraus, K2UD

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Date: Wed, 7 Jun 2000 11:33:30 -1000  
From: "Daniel" <hamop@pixi.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [72172] Aurora  
Message-ID: <200006072132.LAA03870@phoenix.pixi.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

I hope so too. I just called my step-mom in southern Virginia to keep an eye out to see anything. Hope she does.

Dan-AH7MI

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>  
> << Hope the sky is clear over the rest of the week at night..see how far

> south the Aurora will be visible. >>

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Date: Wed, 7 Jun 2000 15:49:37 -0700 (PDT)  
From: Jeff <fantbb@yahoo.com>  
To: qrp qrp <qrp-l@lehigh.edu>  
Subject: [72173] Poqet available for trade, no serial cable  
Message-ID: <20000607224937.19652.qmail@web110.yahoomail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

I have a Poqet Plus that I would like to trade for some kind of QRP gear.

It has no serial cable but if you have a laptop with PCMCIA you can load the programs on the flash memory cards. I found that to be a lot easier than using the cable. Also you can get a card reader that plugs into your floppy disk drive.

I am open to any and all offers. Right now it is sitting around doing nothing.

73!

Jeff

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Jeff Jones  
AB6MB  
NorCal QRP Club #65, QRP-L #1780, ARCI 10071  
Radical FIST Member 6798  
Voicemail/Fax 1-888-Excite2 ext 925-439-2514  
ICQ 62450117

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Do You Yahoo!?  
Yahoo! Photos -- now, 100 FREE prints!  
<http://photos.yahoo.com>

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End of QRP-L Digest 1845

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